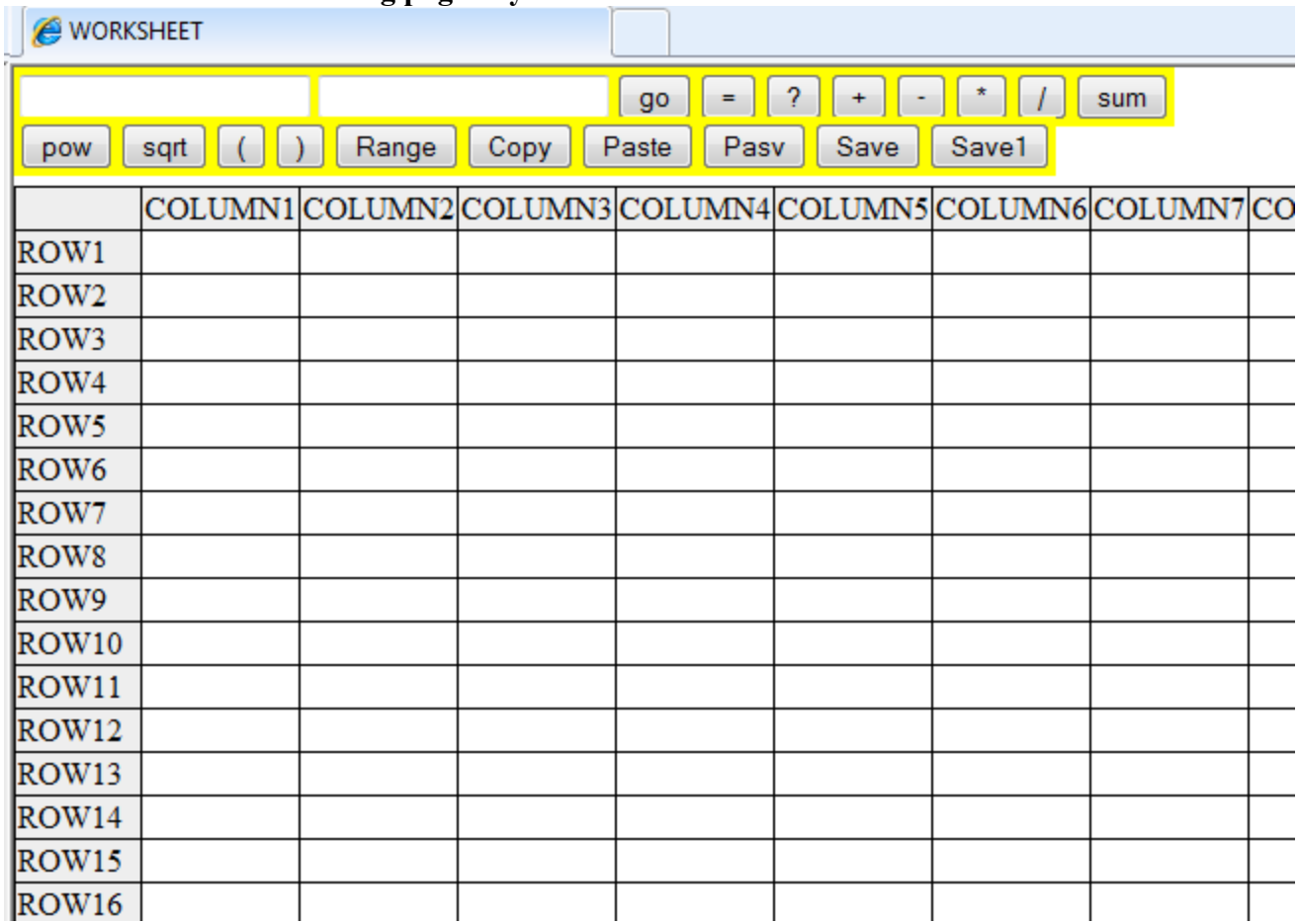
MANUAL FOR WEBXL – A WEBBASED SPREADSHEET APPLICATION.

This can be opened in the following link: http://www.nirt.in/webxl

1. **You will see the following page in your web browser**.



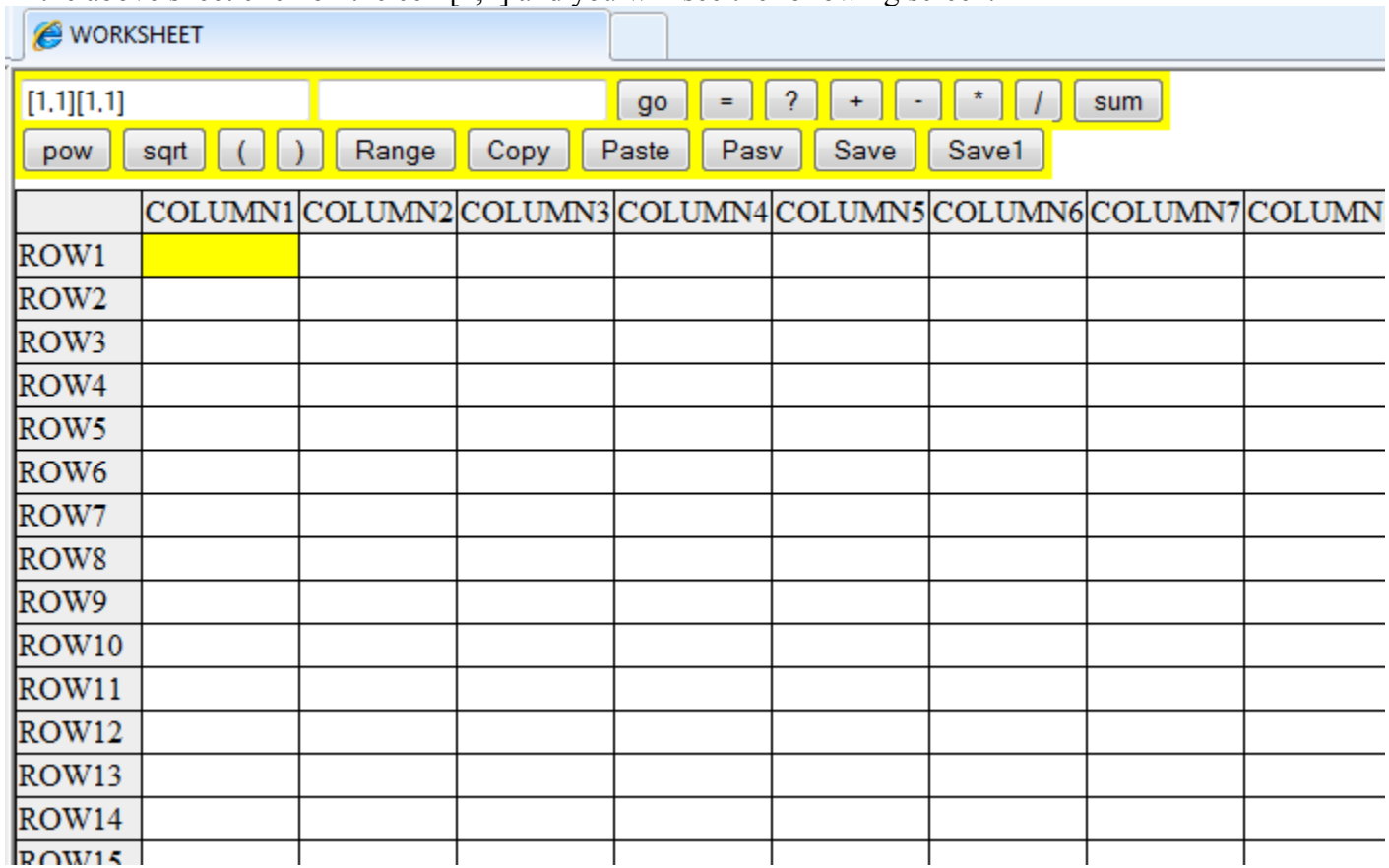
	COLUMN1	COLUMN2	COLUMN3	COLUMN4	COLUMN5	COLUMN6	COLUMN7	CO
ROW1								
ROW2								
ROW3								
ROW4								
ROW5								
ROW6								
ROW7								
ROW8								
ROW9								
ROW10								
ROW11								
ROW12								
ROW13								
ROW14								
ROW15								
ROW16								

The text boxes and buttons at top with yellow background are tools for this spread sheet application. This sheet contains 100 rows and 100 columns.
The top left text box will show the location of your selected cell in spreadsheet in the format of [row_no,column_no]. example [1,1] shows that you selected the cell meeting at first row and first column.[1,1][1,1] shows that you selected single cell. This will change as [1,1][10,10] when you selected range of cells between [1,1] and [10,10] and selected cells will change to yellow color.

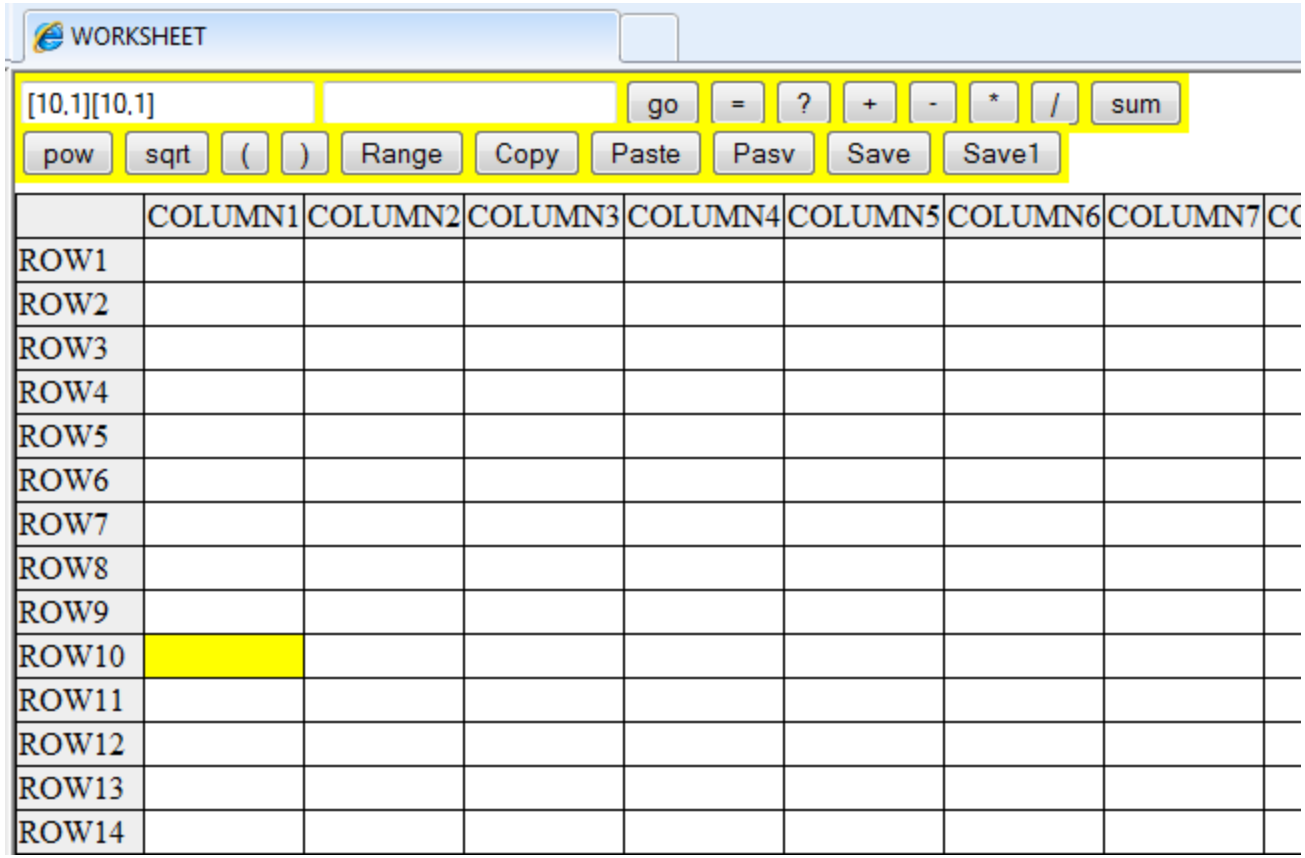
The next text box just right of the above text box is the input box, where you can type text and formula as in other spreadsheet applications.

2.Selecting Cells in the Spread sheet.

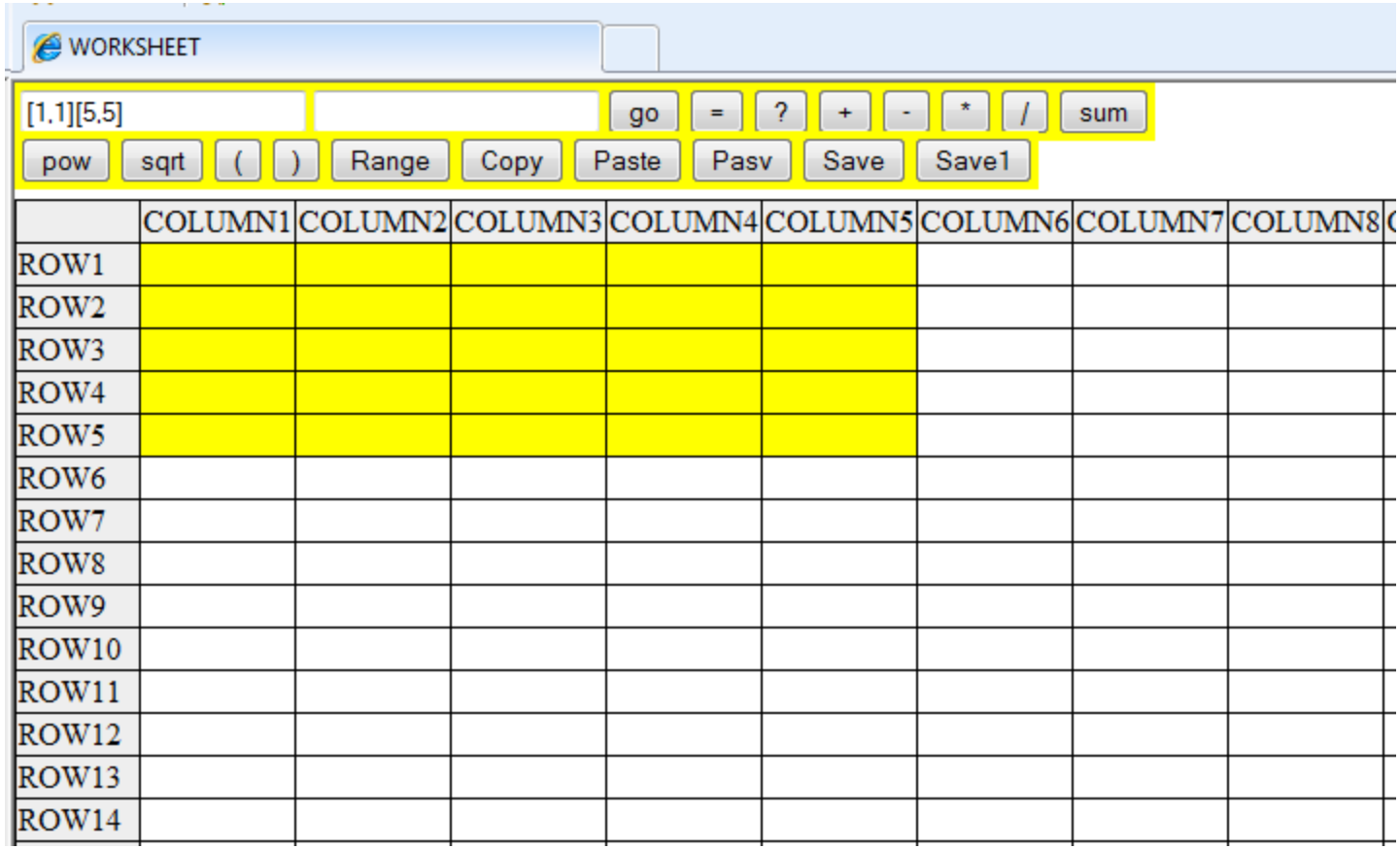
In the above sheet click on the cell [1,1] and you will see the following screen.



Click on [10,1] you will see the following screen.

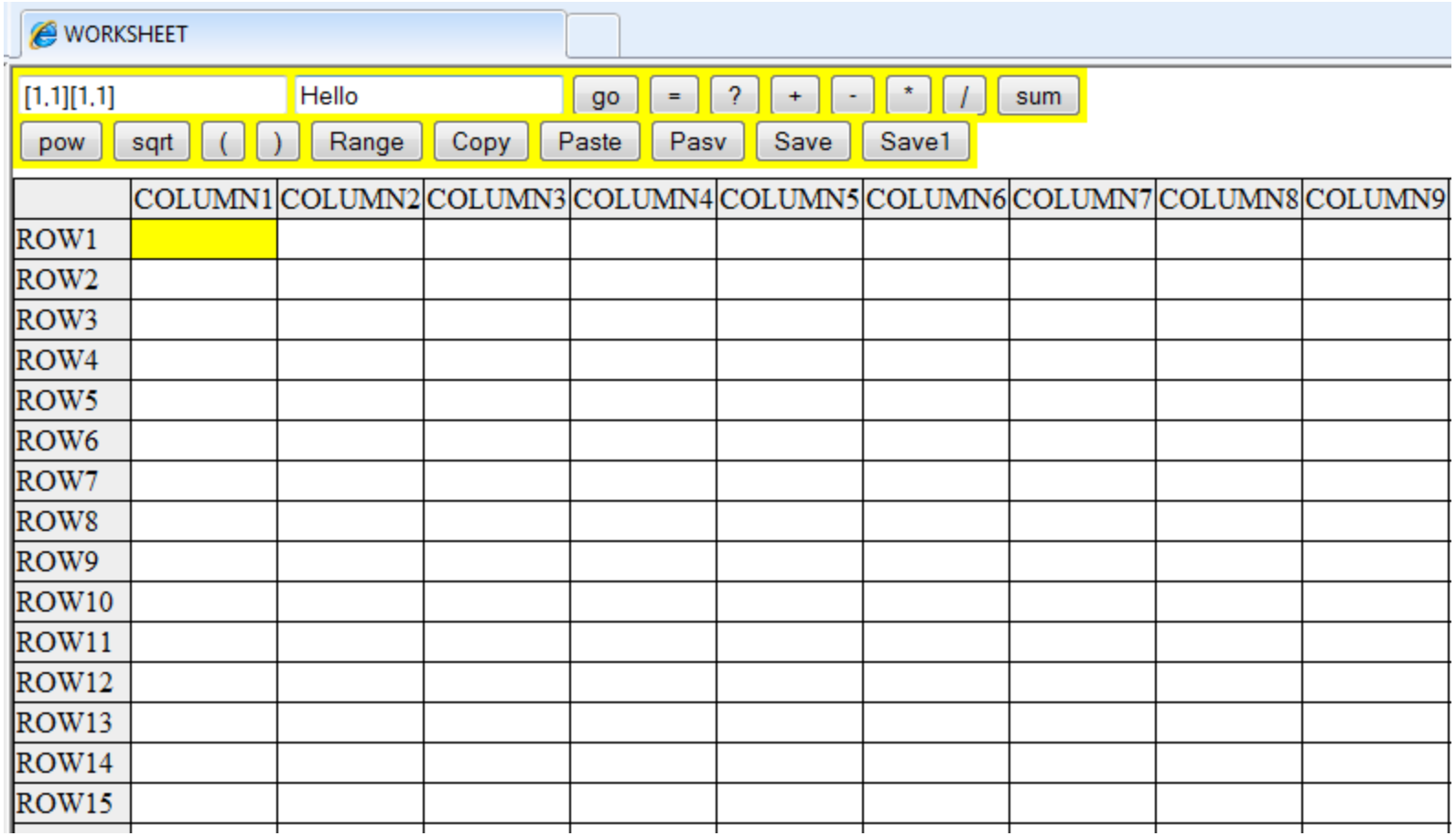


You will see that your selection is shown as [10,1][10,1] in location indicator text box at top left.
To select the range of Cells . Click on the Range button after selecting the first cell and then select another cell which will select all the cells within the range and all cells within the range will become yellow in color. For example in the above sheet first select [1,1] and then Range button once and then select [5,5]. You will see the range as shown below. And you will see [1,1][5,5] in location indicator.

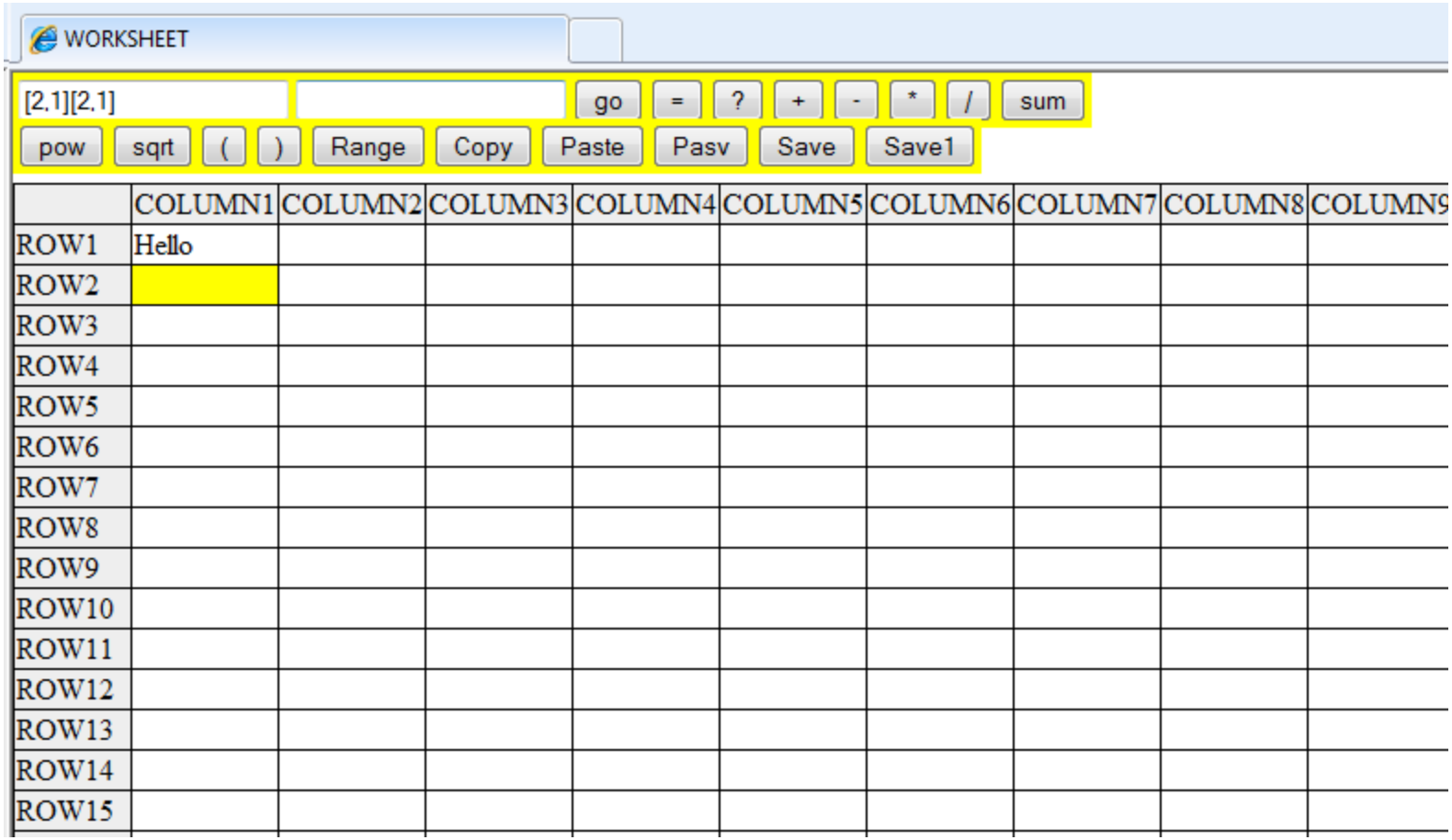


3.Entering texts and values in the cells.

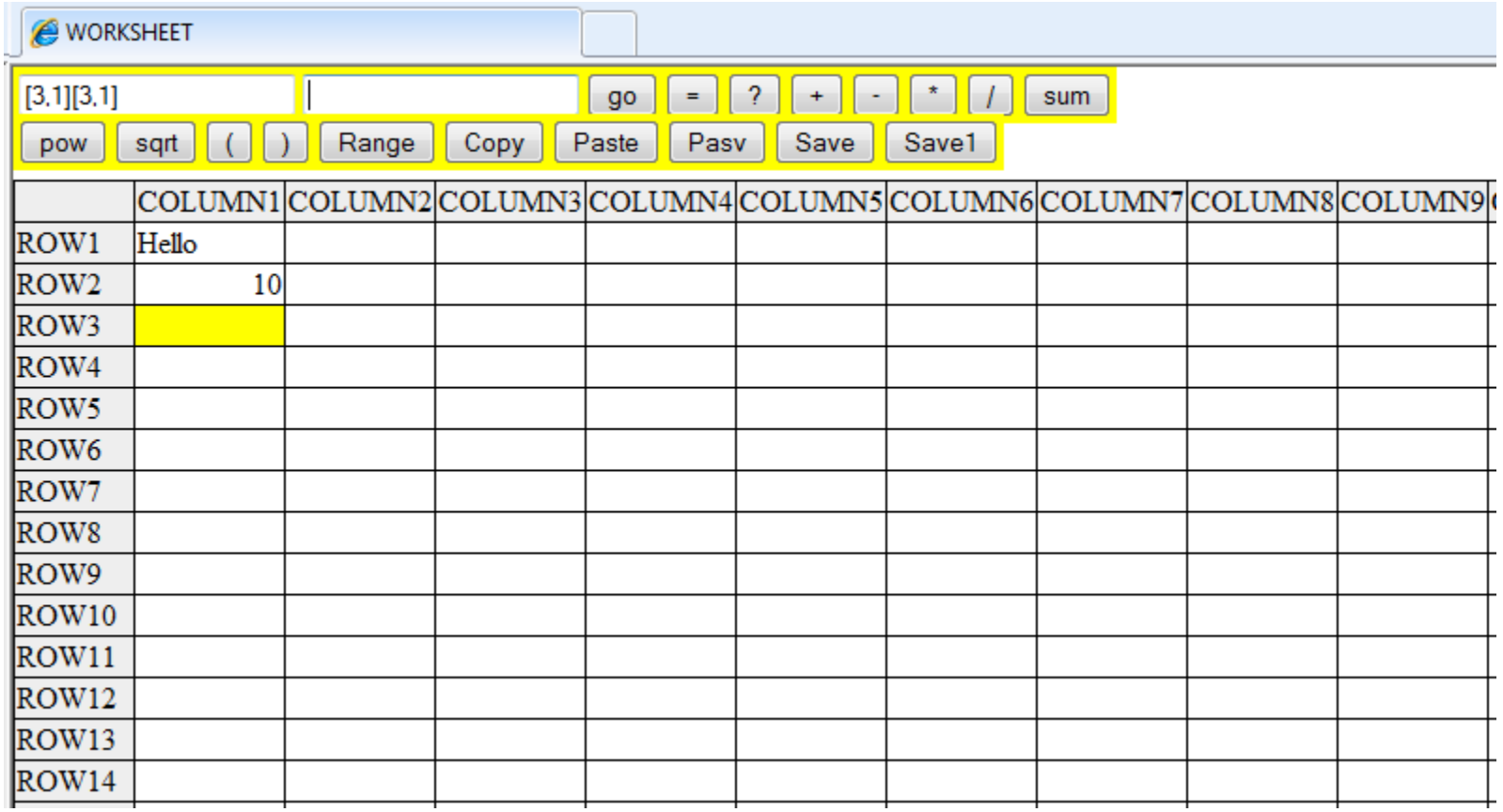
First select [1,1] and then type something in input box and then press enter key or go button in tools. You will see the entries in the selected cells. For example select [1,1] and then type Hello in input text box as shown below.



Then press Enter key or press go button in tool box. You will see the following screen as shown below.



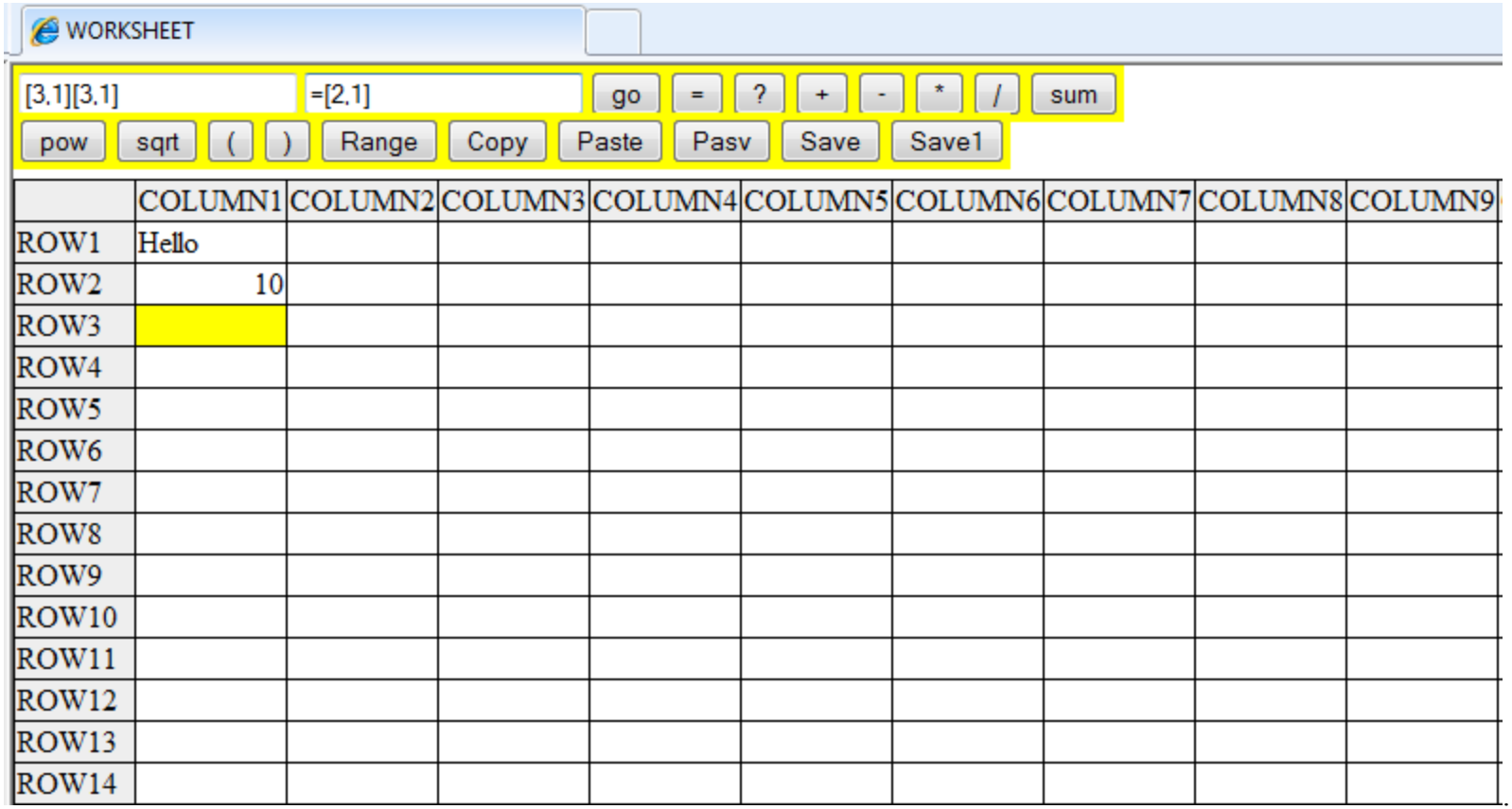
The “Hello” is entered in cell[1,1] and your cell selection is changed to just below the previous cell that is [2,1][2,1] and you will see your location in the location indicator.***(Note: Enter key won’t work in Firefox and you have to press go button instead.)***
Now enter some value that is 10 in input box and press enter key. You will see the following screen.



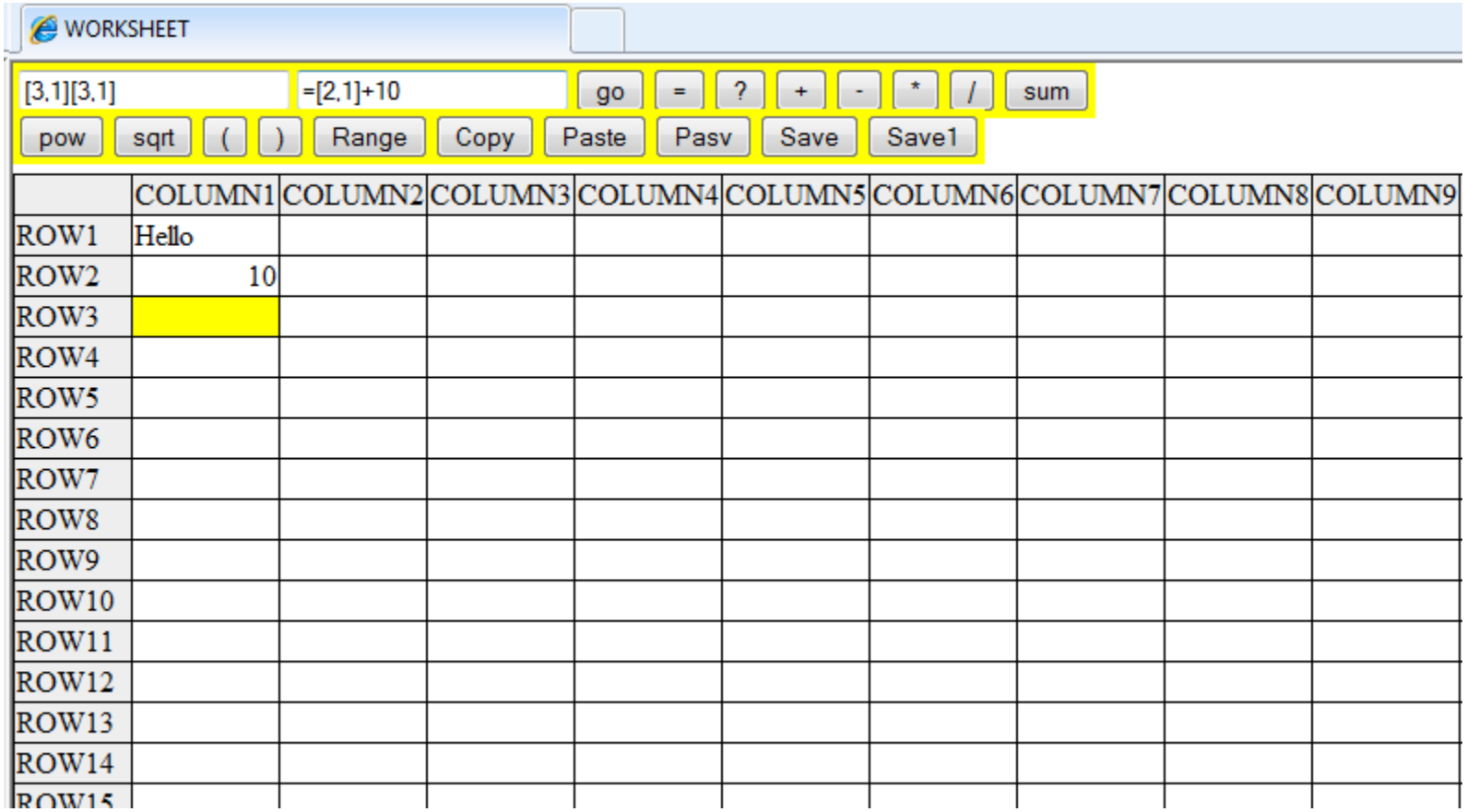
You will see that the values / numbers are right justified and text is left justified.

4.Doing Calculations in spreadsheet.

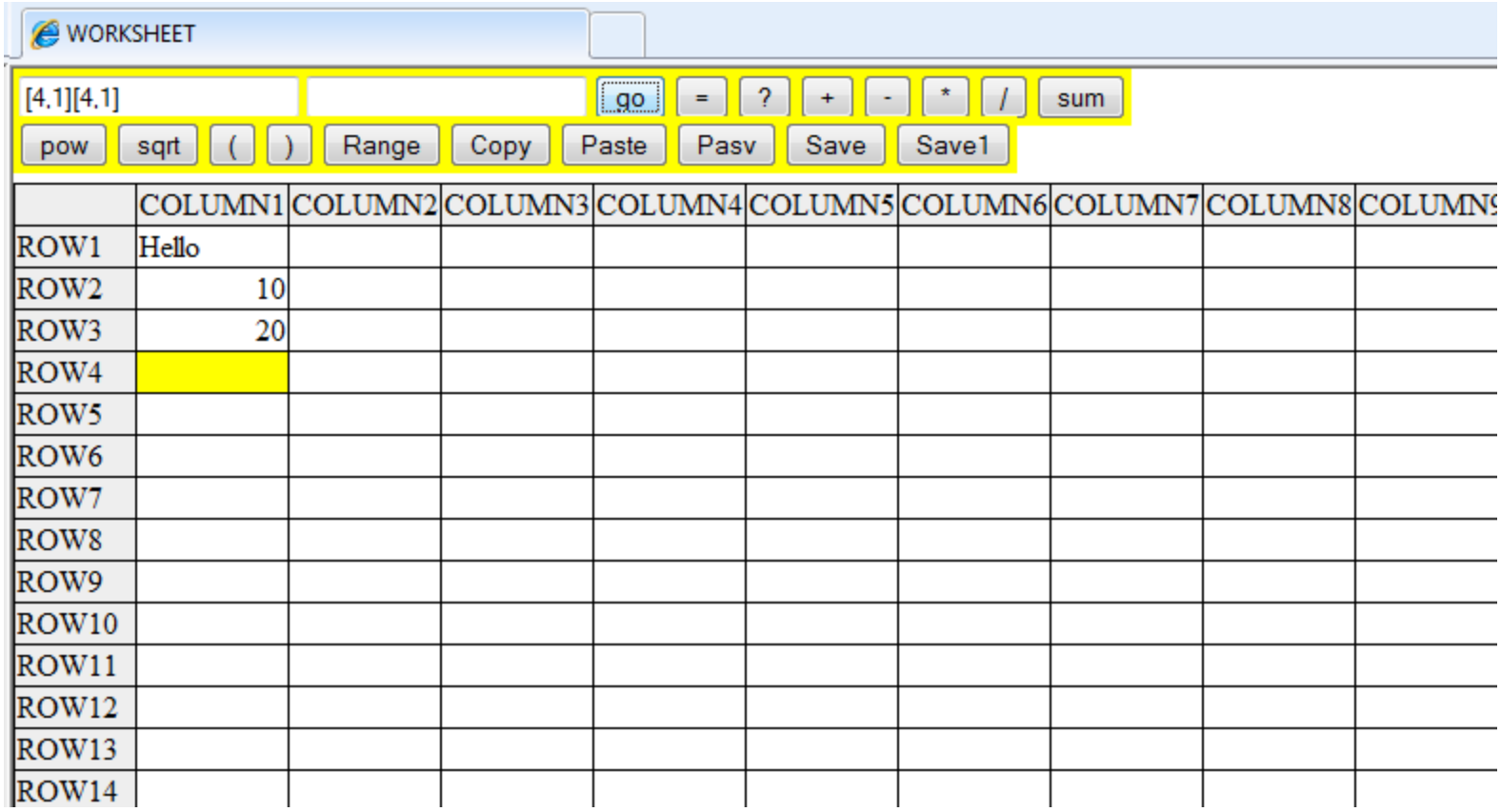
Now I want to add +10 to value in cell [2,1] and put the value in the current selected cell[3,1][3,1]. For that in the input box enter "=" sign by keyboard or press "=" button (just right side of the "go" button) and then select the cell[2,1] and you will see the following in input box as shown below. The contents in the input box is =[2,1].



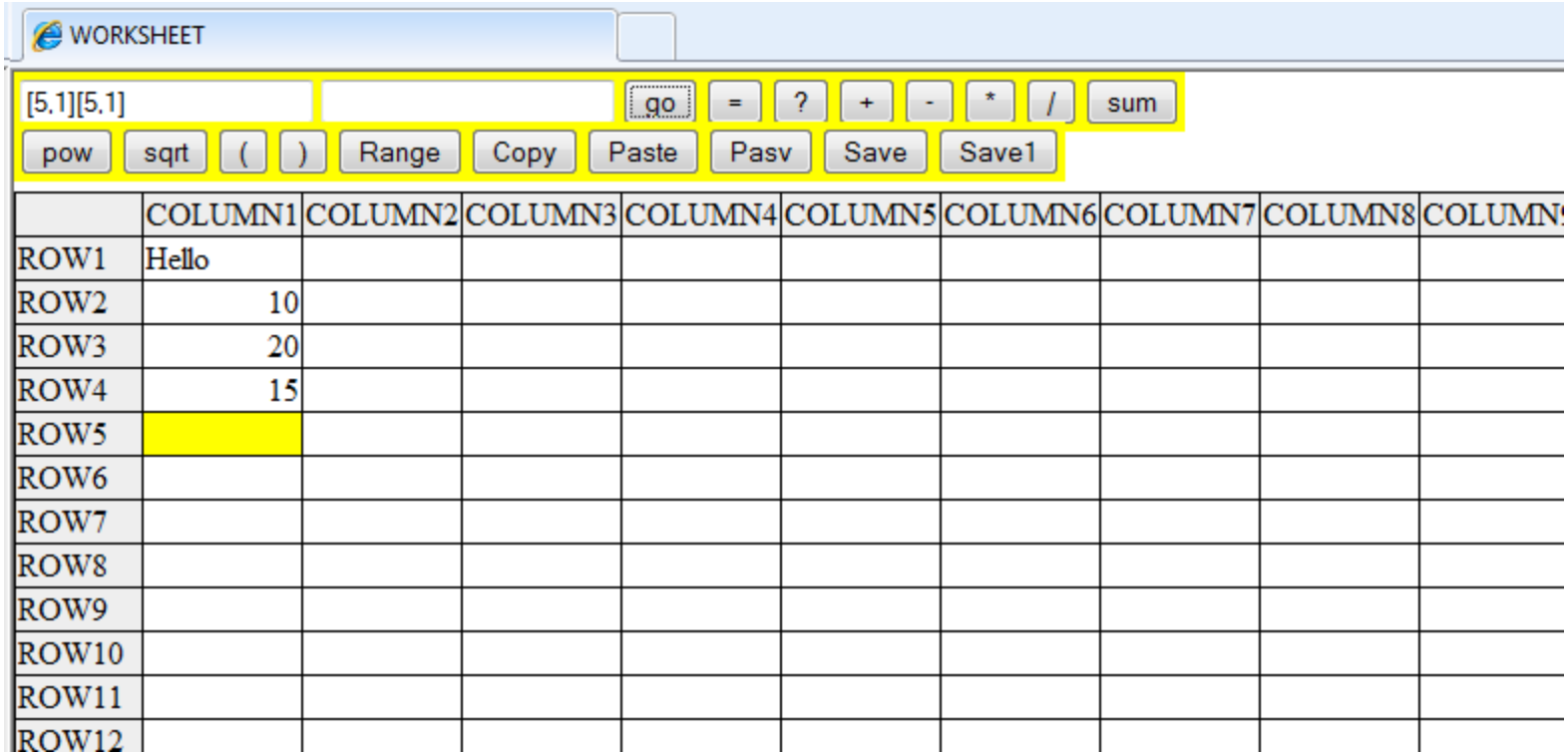
Now type +10 in the input box after =[2,1] as =[2,1]+10 and then press enter key or ‘go’ button. You will see the following screen as below.



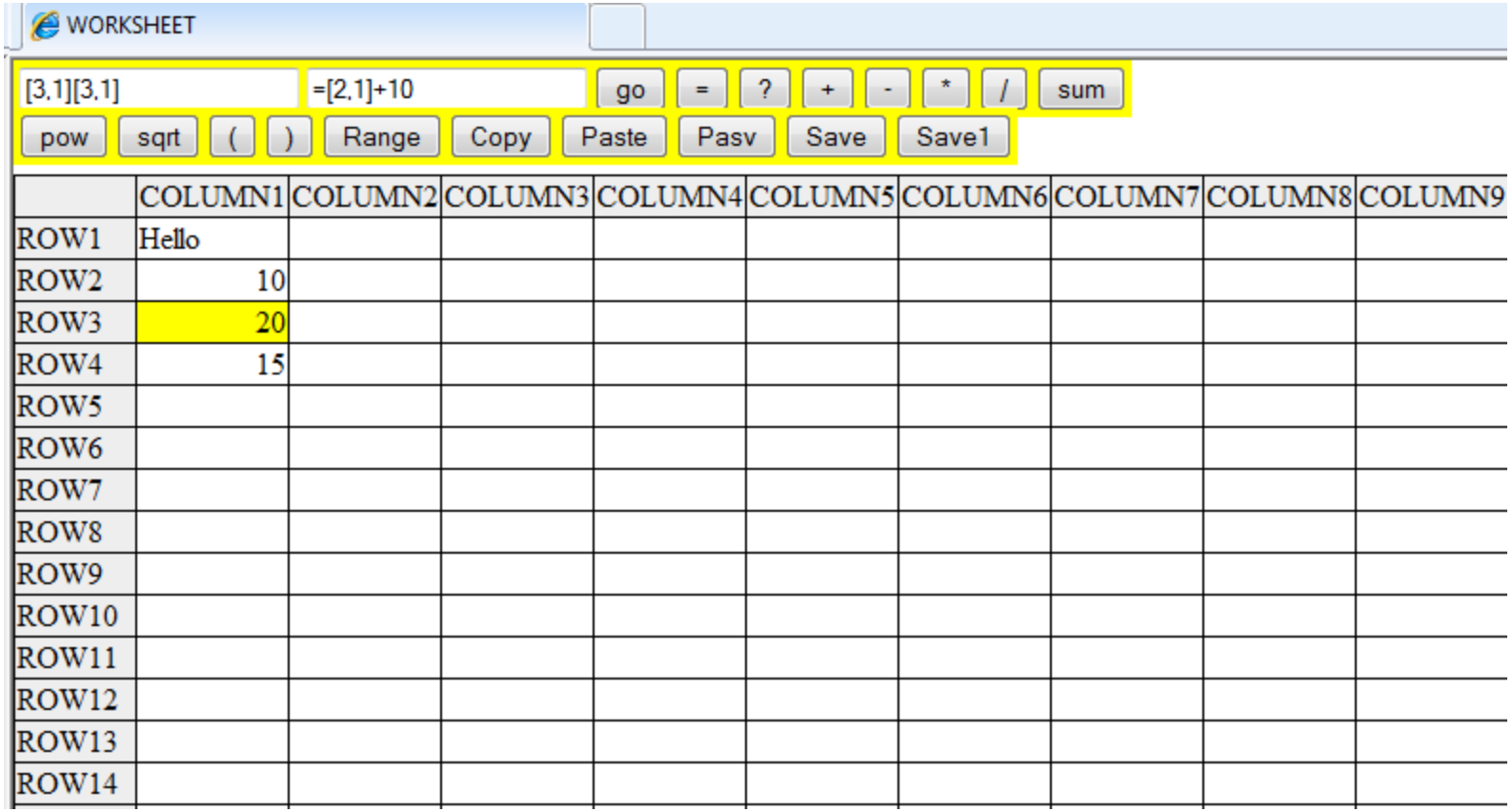
After pressing ‘go’ button you will see the following screen.



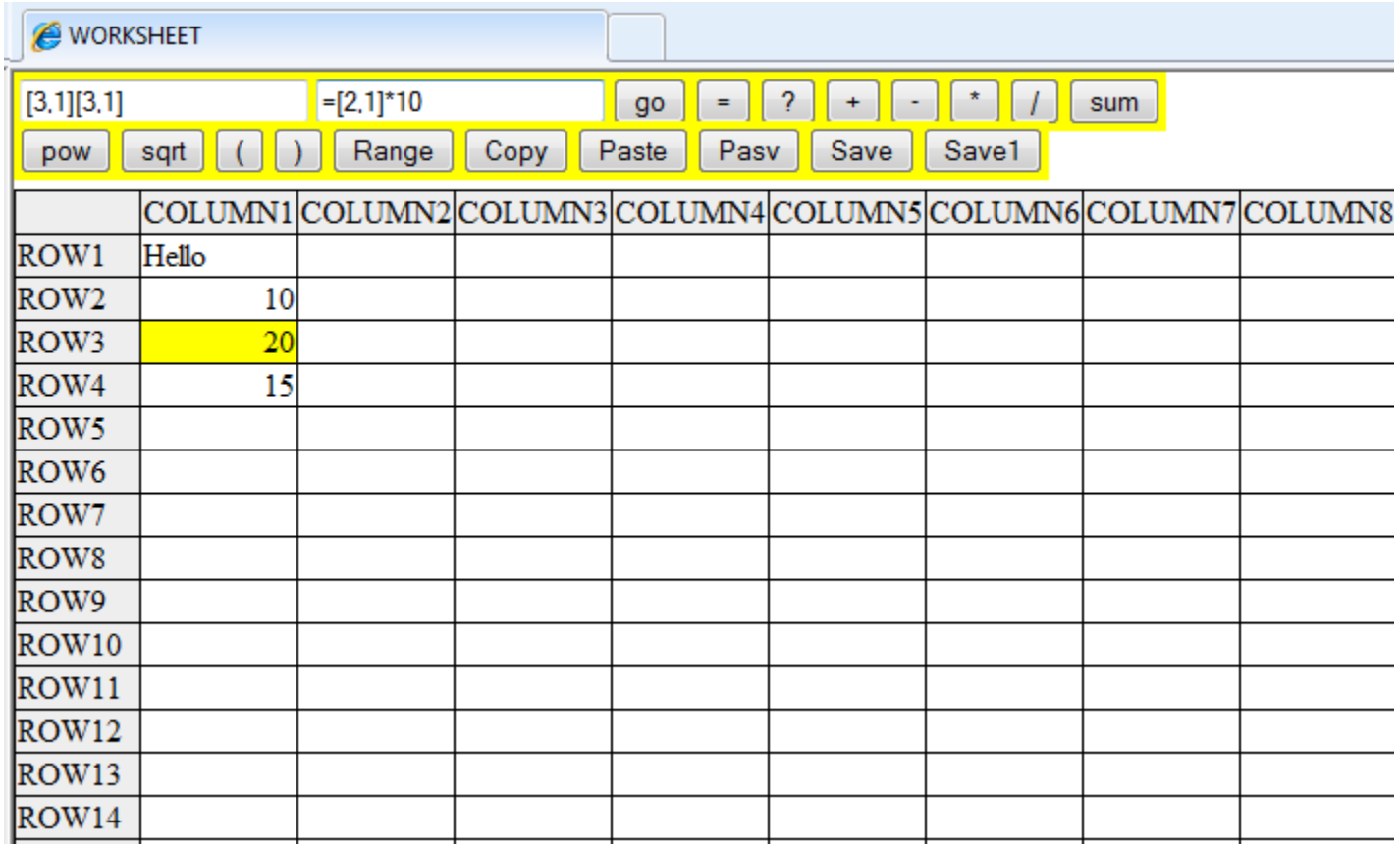
Now you will see that the contents of [3,1]=20 . This is calculated as Value at [2,1]+10. The formula is =[2,1]+10.
Similarly you can subtract 5 from the value at [3,1] by entering =[3,1]-5 and then press enter key. You need not type [3,1] in the formula. After entering '=' sign in the current cell click on cell [3,1] and then type -5 and then enter. Instead of typing '-' you can use the '-' button in tools also. You will see the formula as =[3,1]-5 and after pressing 'go' button you will see the following screen.



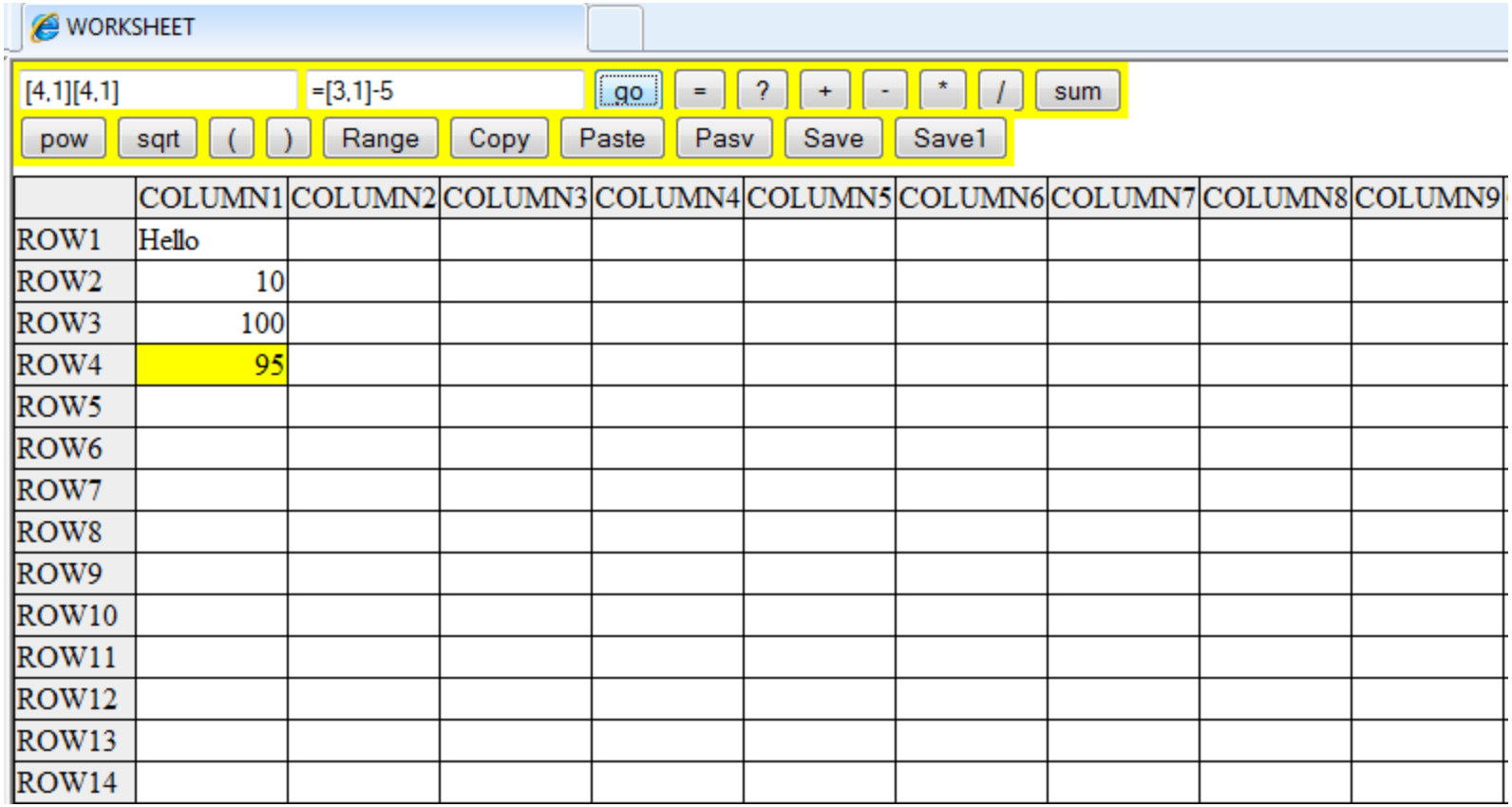
You can go and select the cells with values and formula to see the values or formulas present in those cells. The contents in input box will show formula or values in the selected cells. For example now select the cell [3,1] you will see the following screen with contents of input box displays the formula in that cell.



Now you will see that the input box shows the formula =[2,1]+10 and now you can edit the formula in input box. For example put the cursor at + sign and retype to change it as * and your formula will change as =[2,1]*10 as shown below.

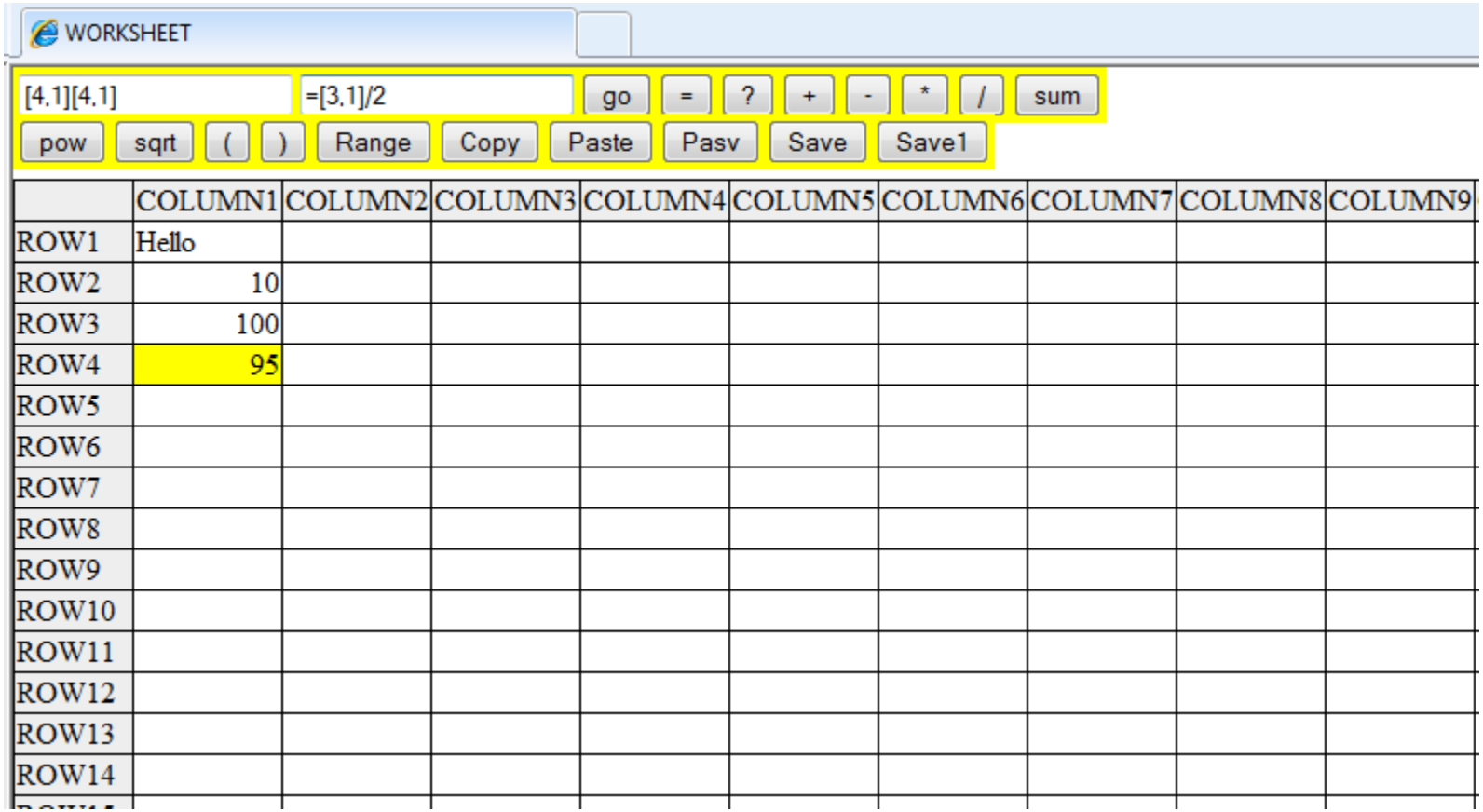


Now press enter key or ‘go’ button. You will see the sheet as below.

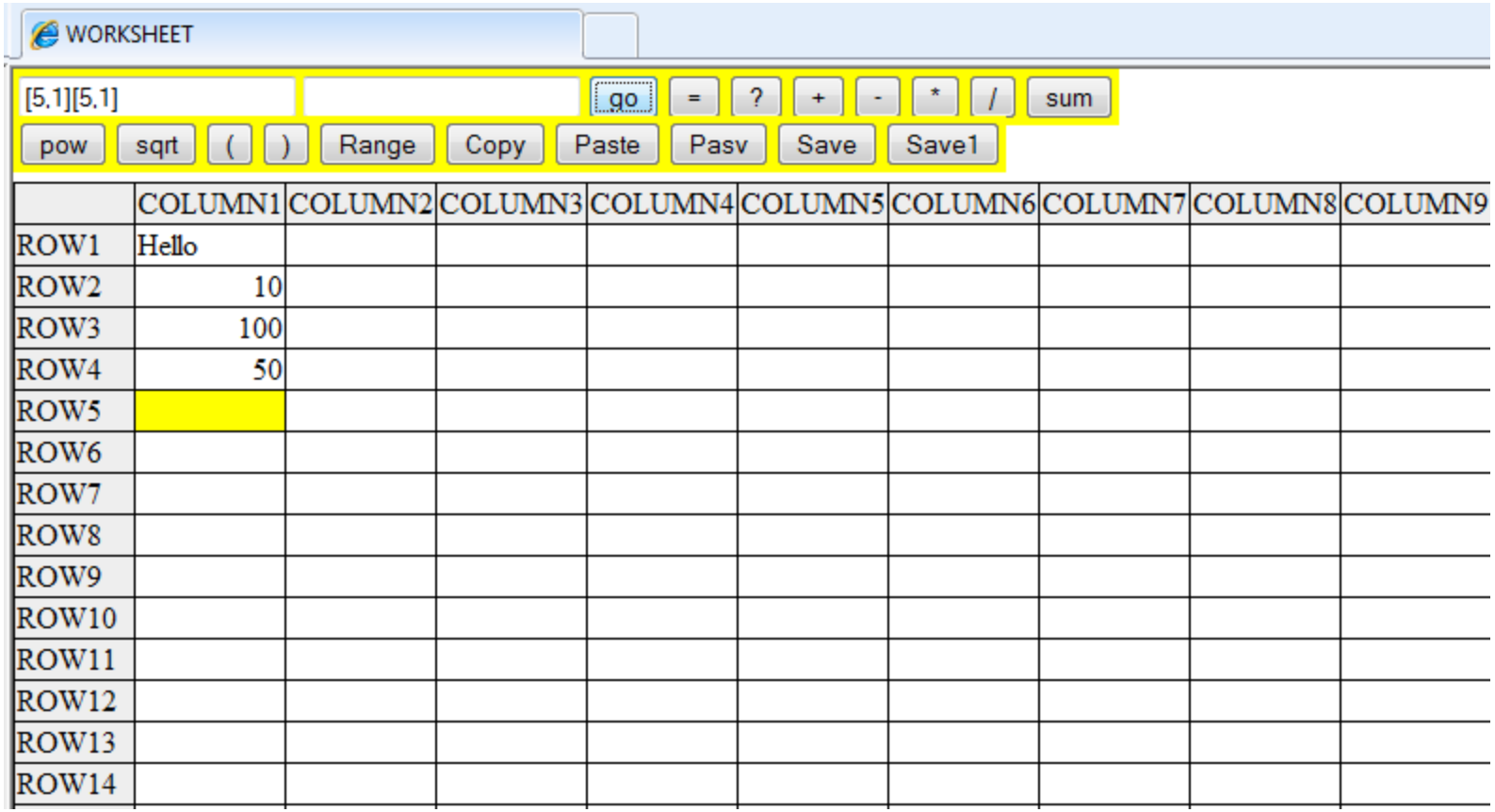


	COLUMN1	COLUMN2	COLUMN3	COLUMN4	COLUMN5	COLUMN6	COLUMN7	COLUMN8	COLUMN9
ROW1	Hello								
ROW2	10								
ROW3	100								
ROW4	95								
ROW5									
ROW6									
ROW7									
ROW8									
ROW9									
ROW10									
ROW11									
ROW12									
ROW13									
ROW14									

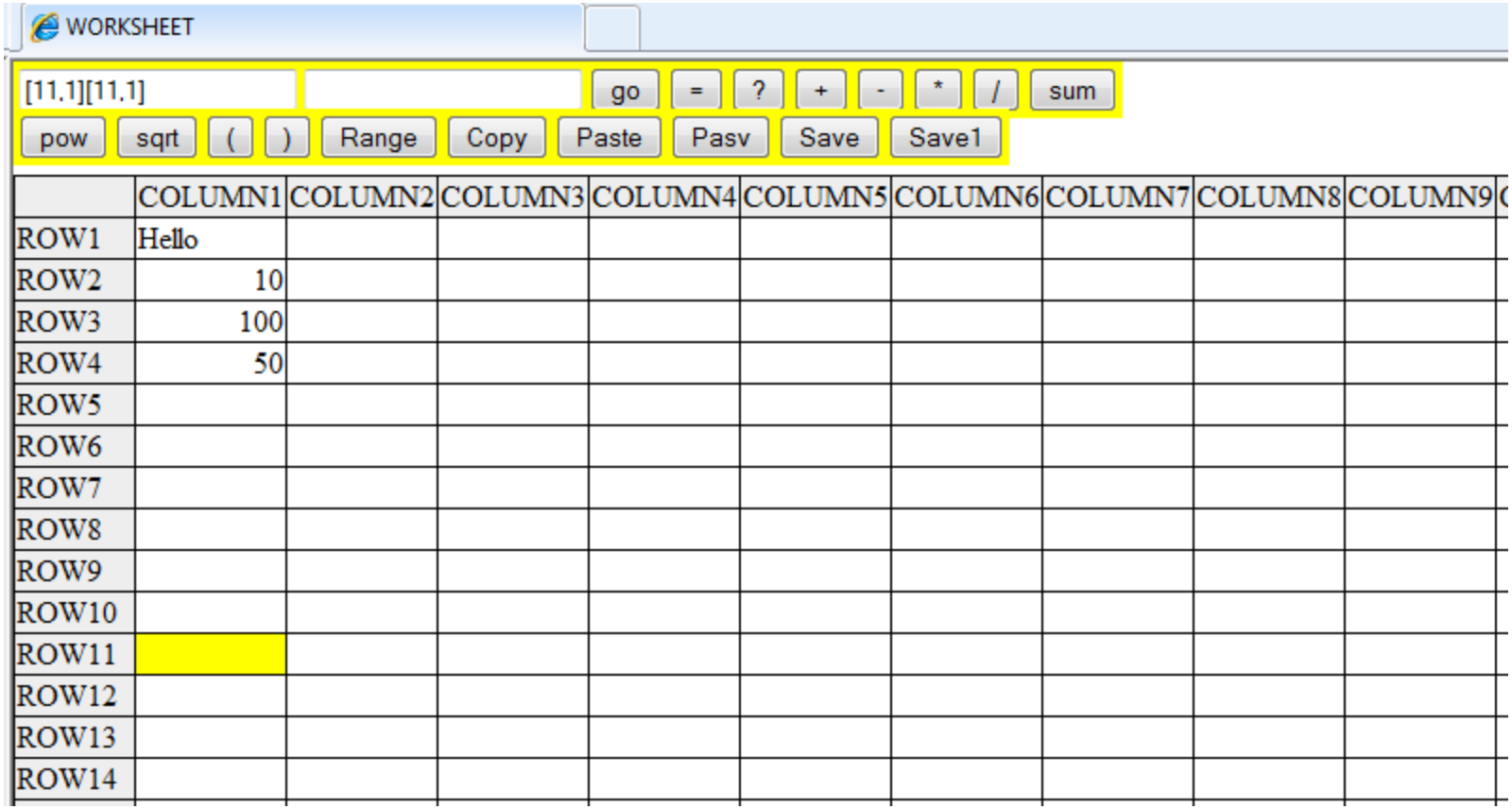
Now you will see the contents of [3,1] = [2,1]*10 which is equal to (10*10=100) and the contents in [4,1] is also changed as per formula [4,1]=[3,1]-5 which is equal to (100-5=95). Similarly you can change the formula in [4,1] as =[3,1]/2 as below.



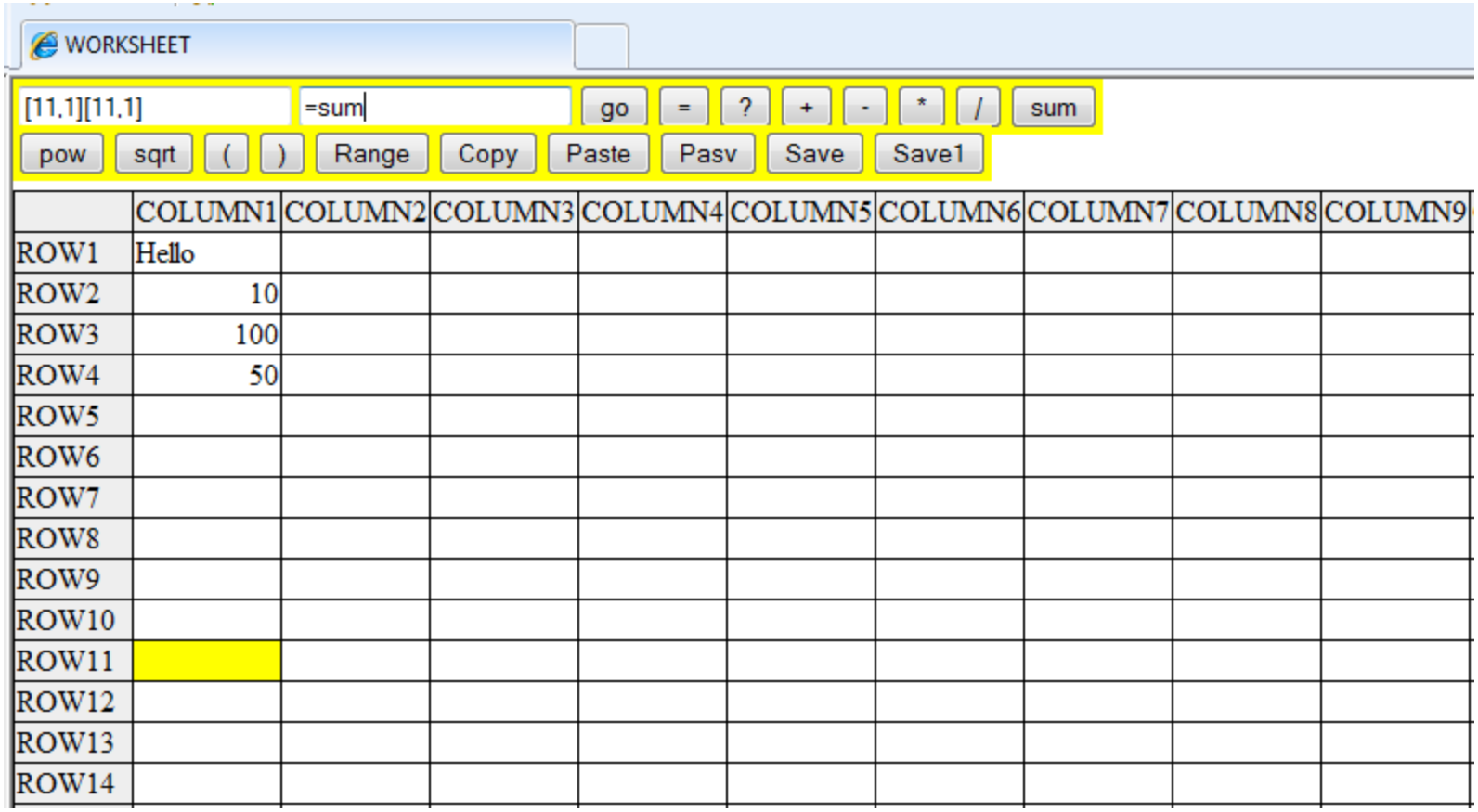
Now press ‘go’ button will show the following change.



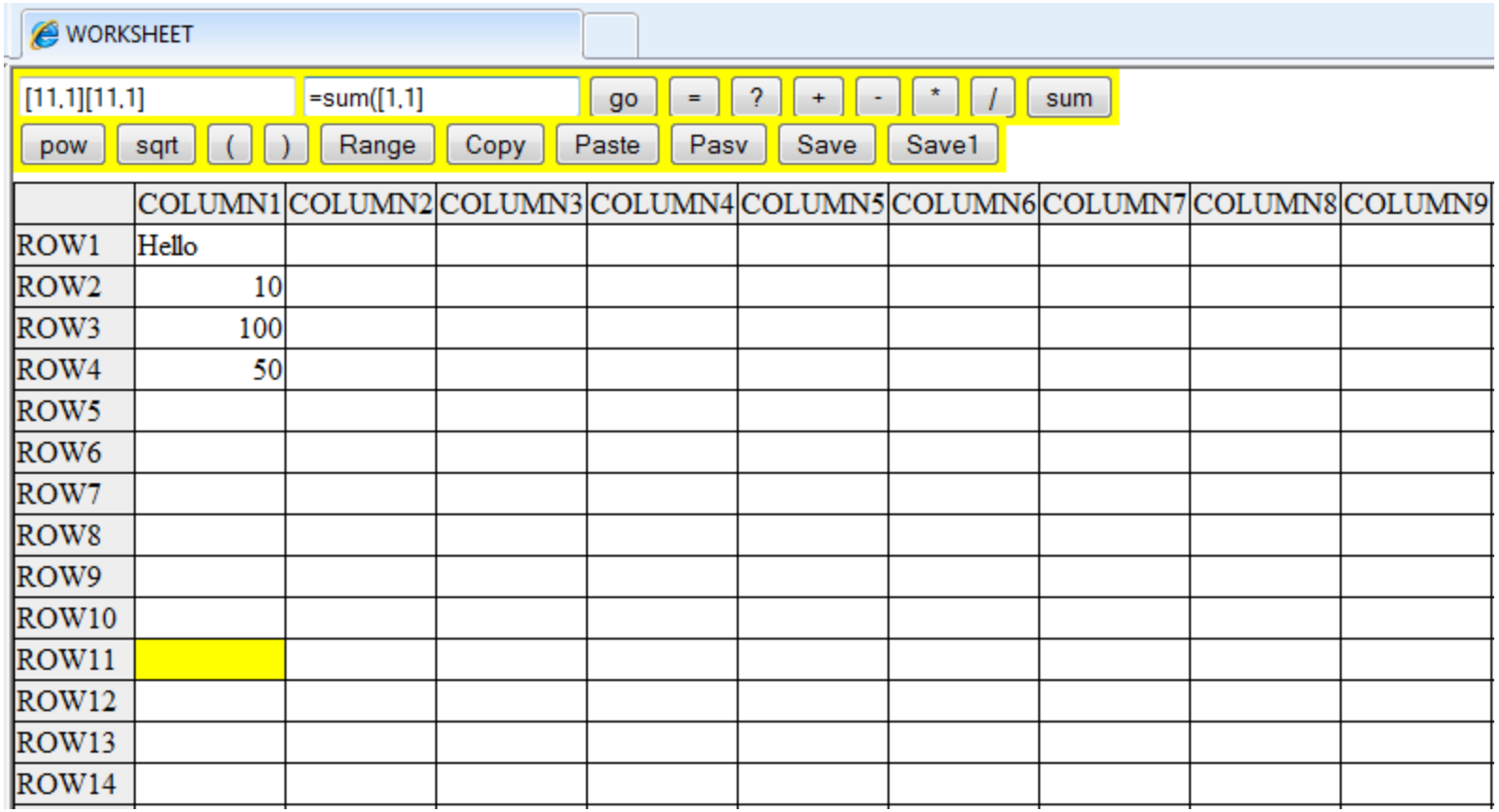
Now you will see that the contents of [4,1]=[3,1]/2 which is (100/2=50). Now you understood basic calculation of +,-,*,/. Now will see the =sum function which is used for summing up of columns or rows or range of cells. For that in the above screen select the cell [11,1] as shown below.



Now you will see the location indicator as [11,1][11,1]. In the input box enter '=' and then click 'sum' button.you will see the following screen.

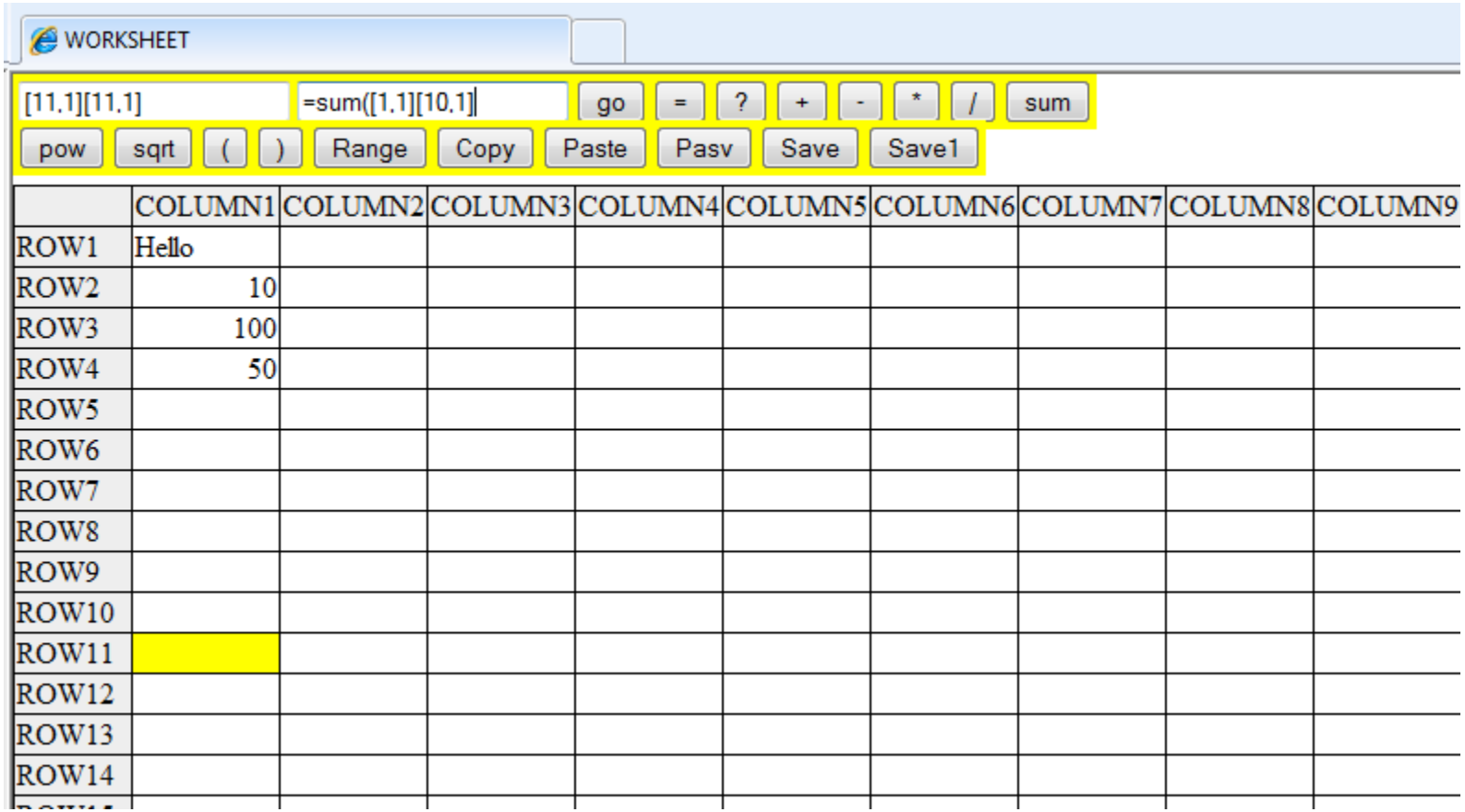


Now press '(' button or type from key board and then click on [1,1] you will see the following screen.

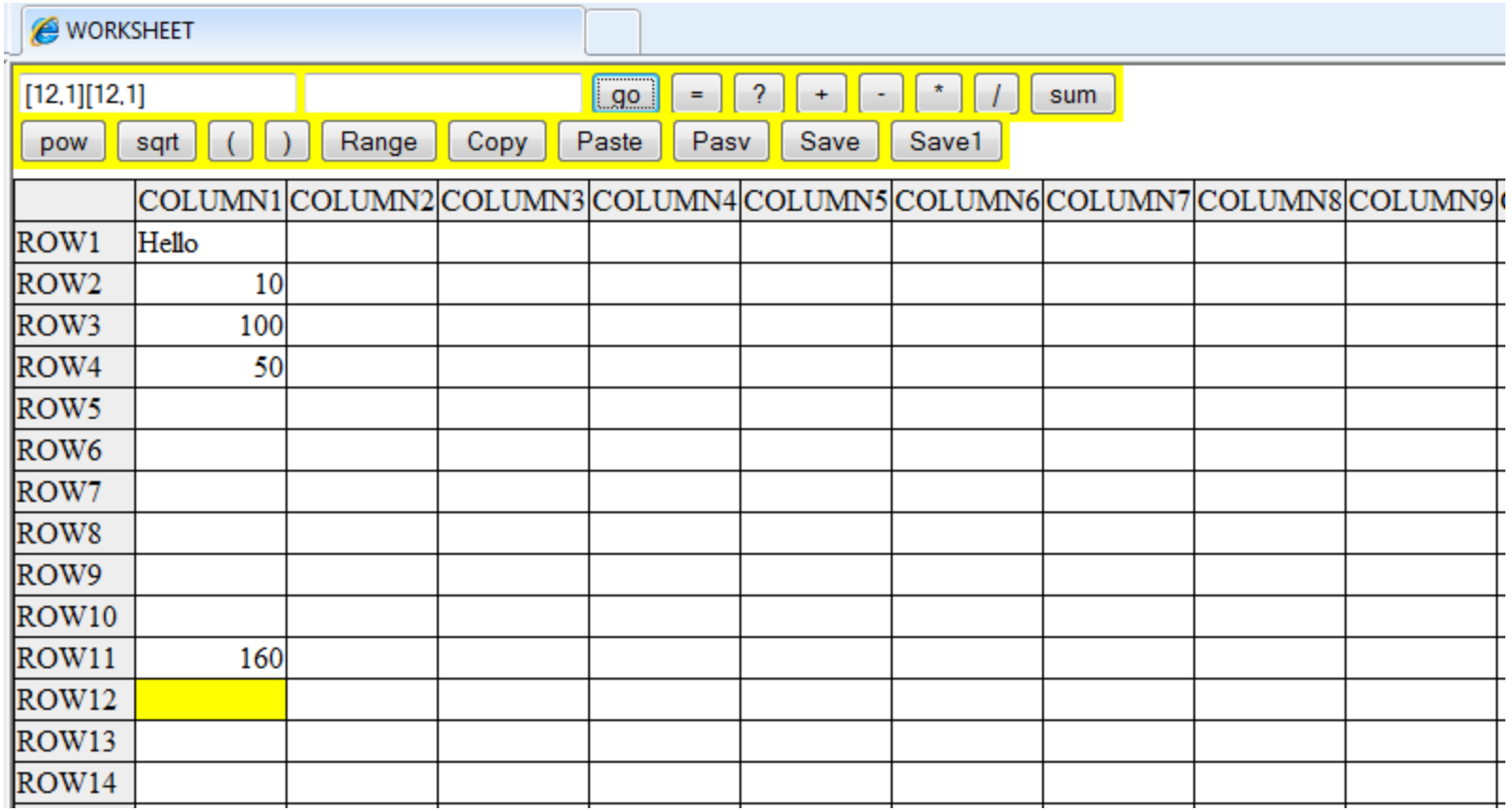


	COLUMN1	COLUMN2	COLUMN3	COLUMN4	COLUMN5	COLUMN6	COLUMN7	COLUMN8	COLUMN9
ROW1	Hello								
ROW2	10								
ROW3	100								
ROW4	50								
ROW5									
ROW6									
ROW7									
ROW8									
ROW9									
ROW10									
ROW11									
ROW12									
ROW13									
ROW14									

Then click on [10,1] and you will see the following in the formula box as shown below.

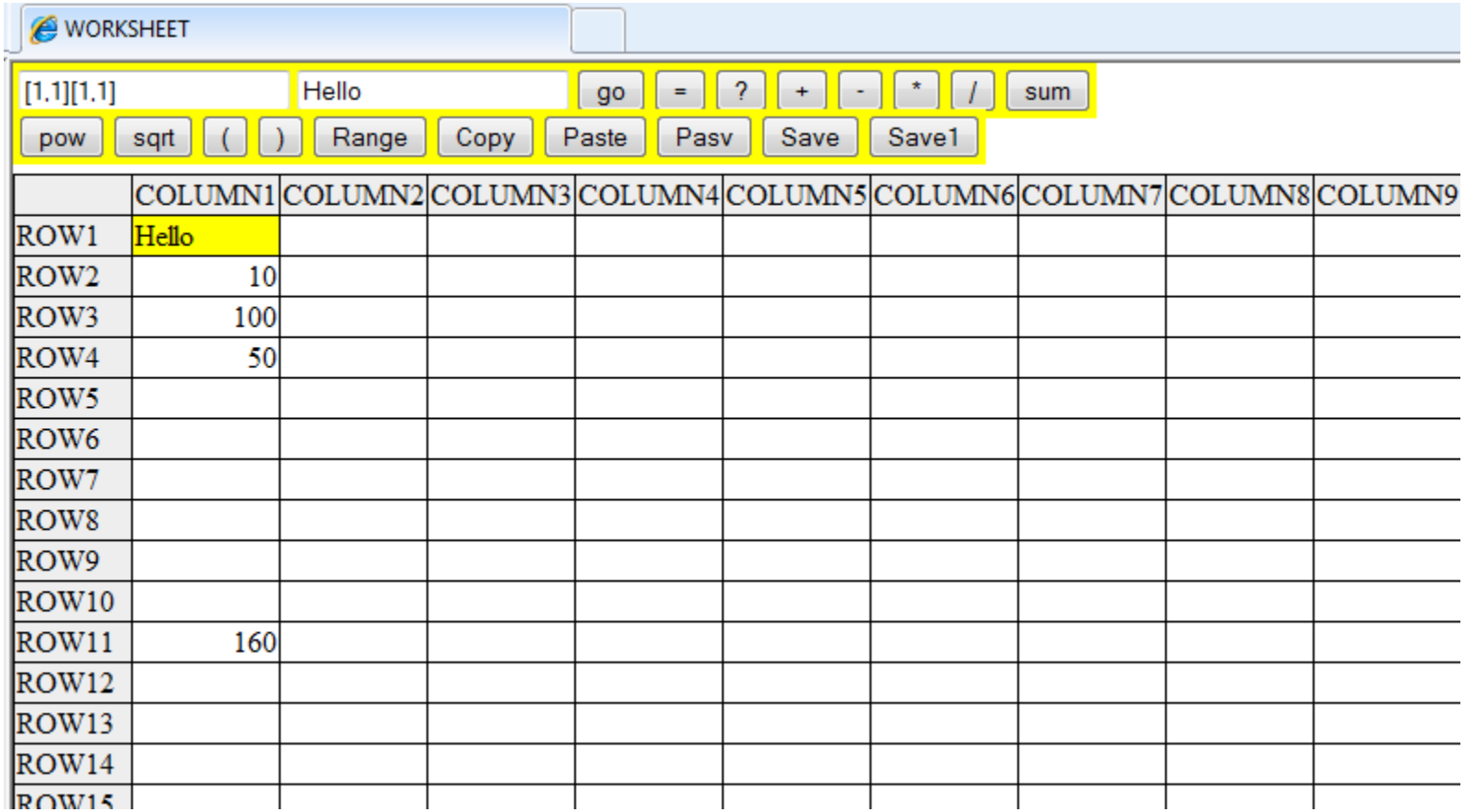


Now press “)” button or type from keyboard and now the formula box will show as =sum([1,1][10,1]) and then press enter key or ‘go’ button. You will see the following screen.

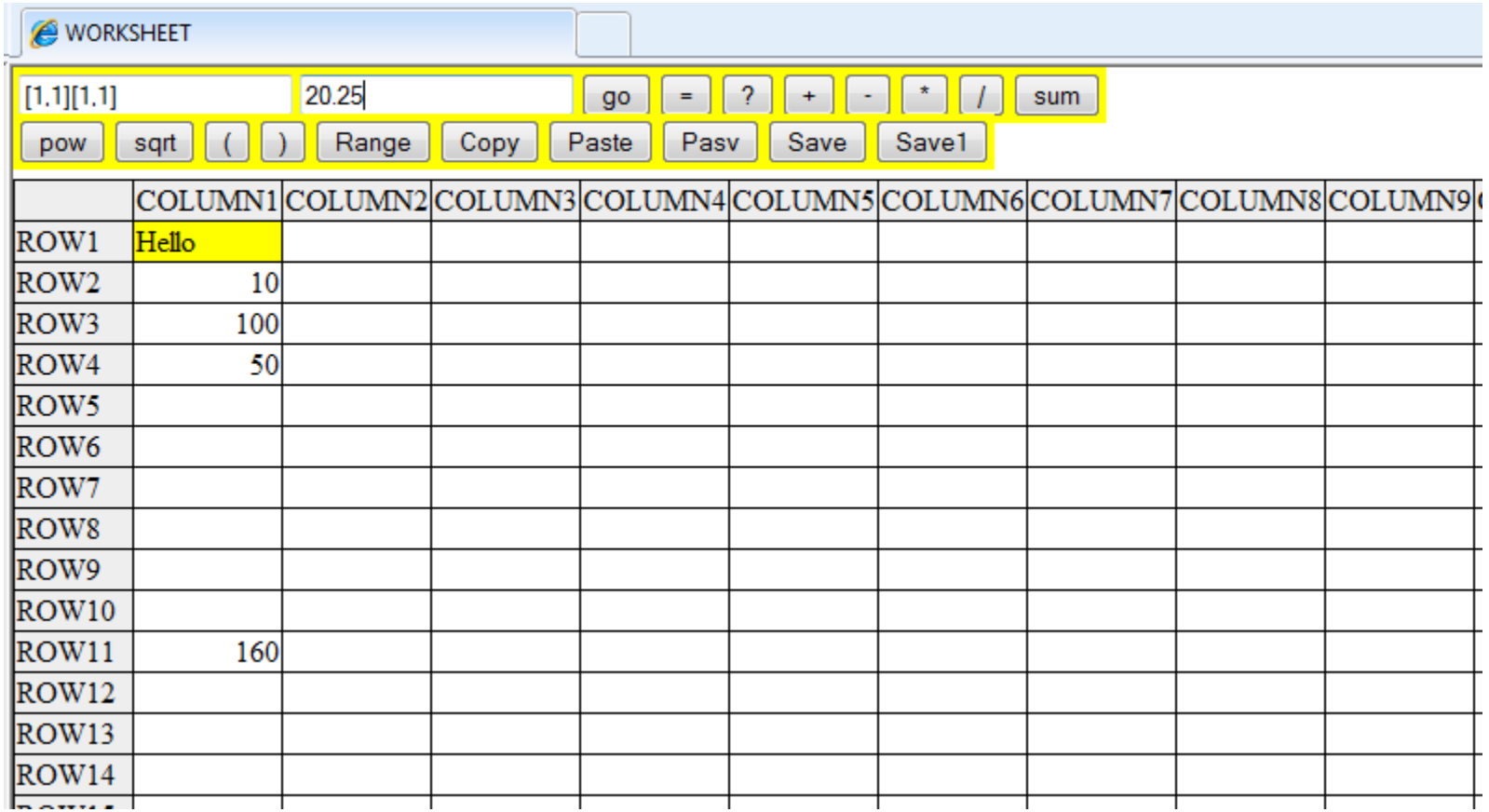


	COLUMN1	COLUMN2	COLUMN3	COLUMN4	COLUMN5	COLUMN6	COLUMN7	COLUMN8	COLUMN9
ROW1	Hello								
ROW2	10								
ROW3	100								
ROW4	50								
ROW5									
ROW6									
ROW7									
ROW8									
ROW9									
ROW10									
ROW11	160								
ROW12									
ROW13									
ROW14									

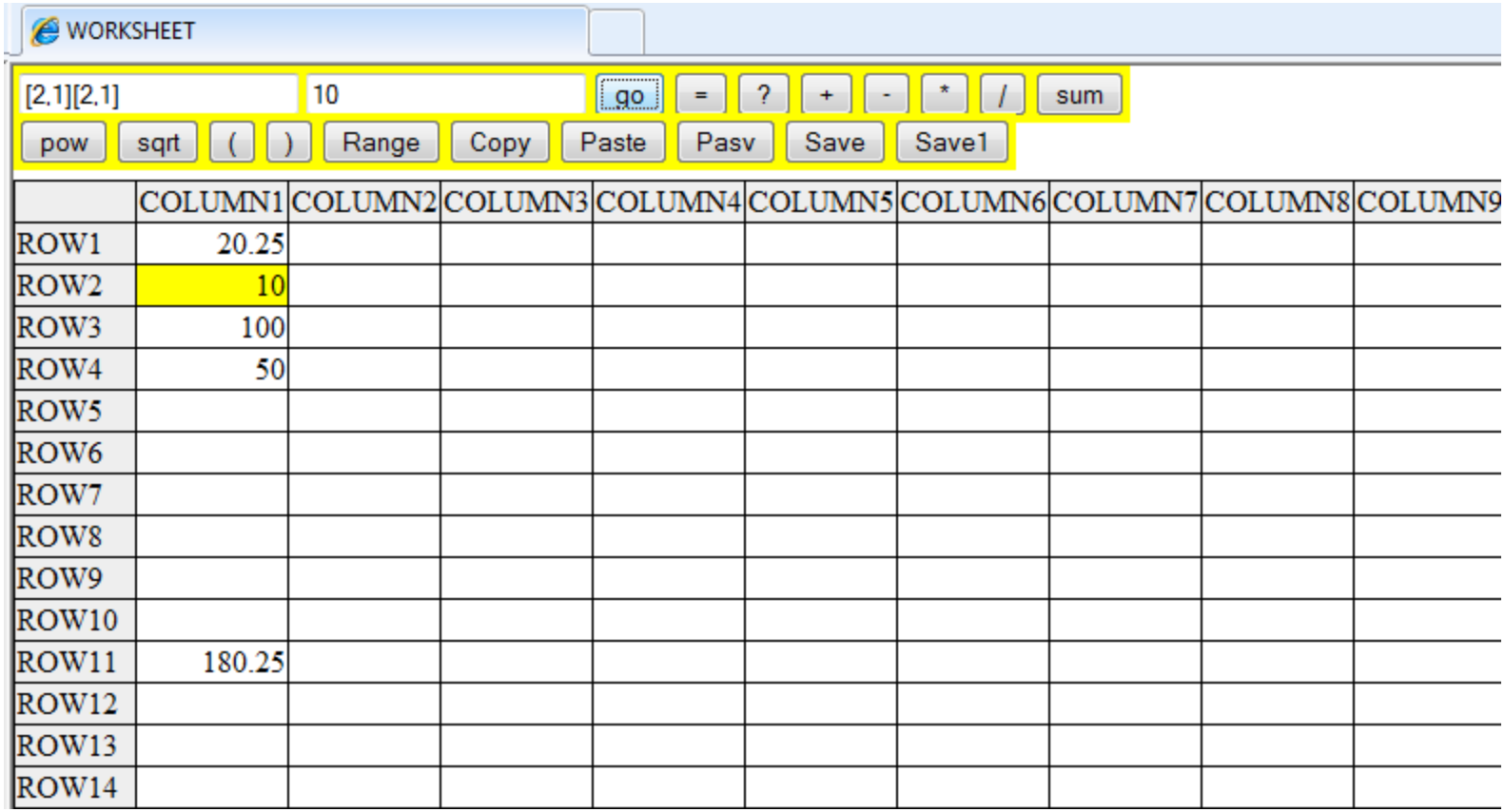
Now go back to the cell [11,1] to see the formula =sum([1,1][10,1]) which is summation of values in Cells [1,1][2,1][3,1][4,1].. [10,1] and works out to be 160 as above. Now you go to cell [1,1] as shown below.



Now edit the contents in input box and change ‘Hello’ to some value 20.25 as shown below.



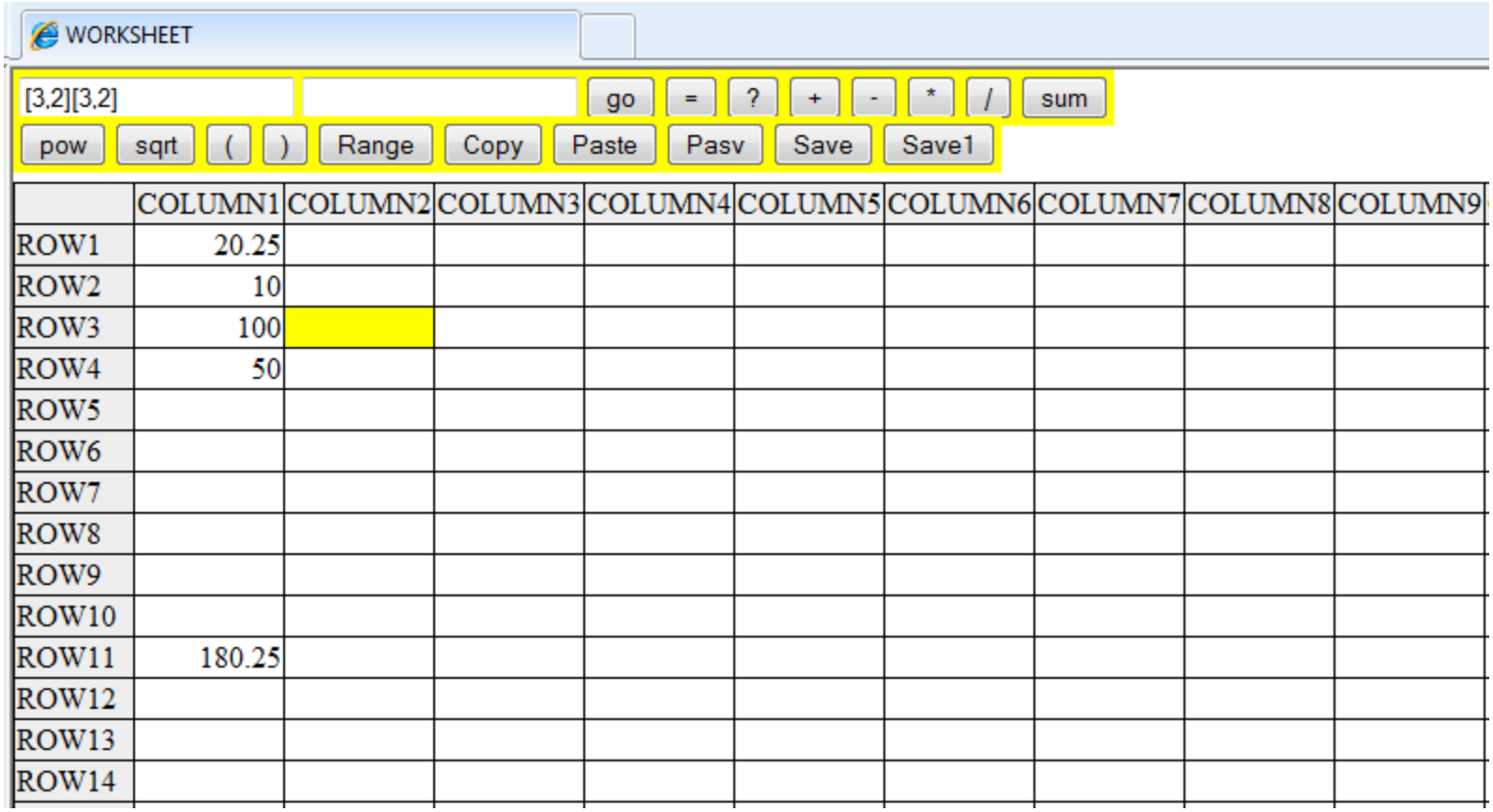
Now press ‘go’ button. The screen will be as shown below.



	COLUMN1	COLUMN2	COLUMN3	COLUMN4	COLUMN5	COLUMN6	COLUMN7	COLUMN8	COLUMN9
ROW1	20.25								
ROW2	10								
ROW3	100								
ROW4	50								
ROW5									
ROW6									
ROW7									
ROW8									
ROW9									
ROW10									
ROW11	180.25								
ROW12									
ROW13									
ROW14									

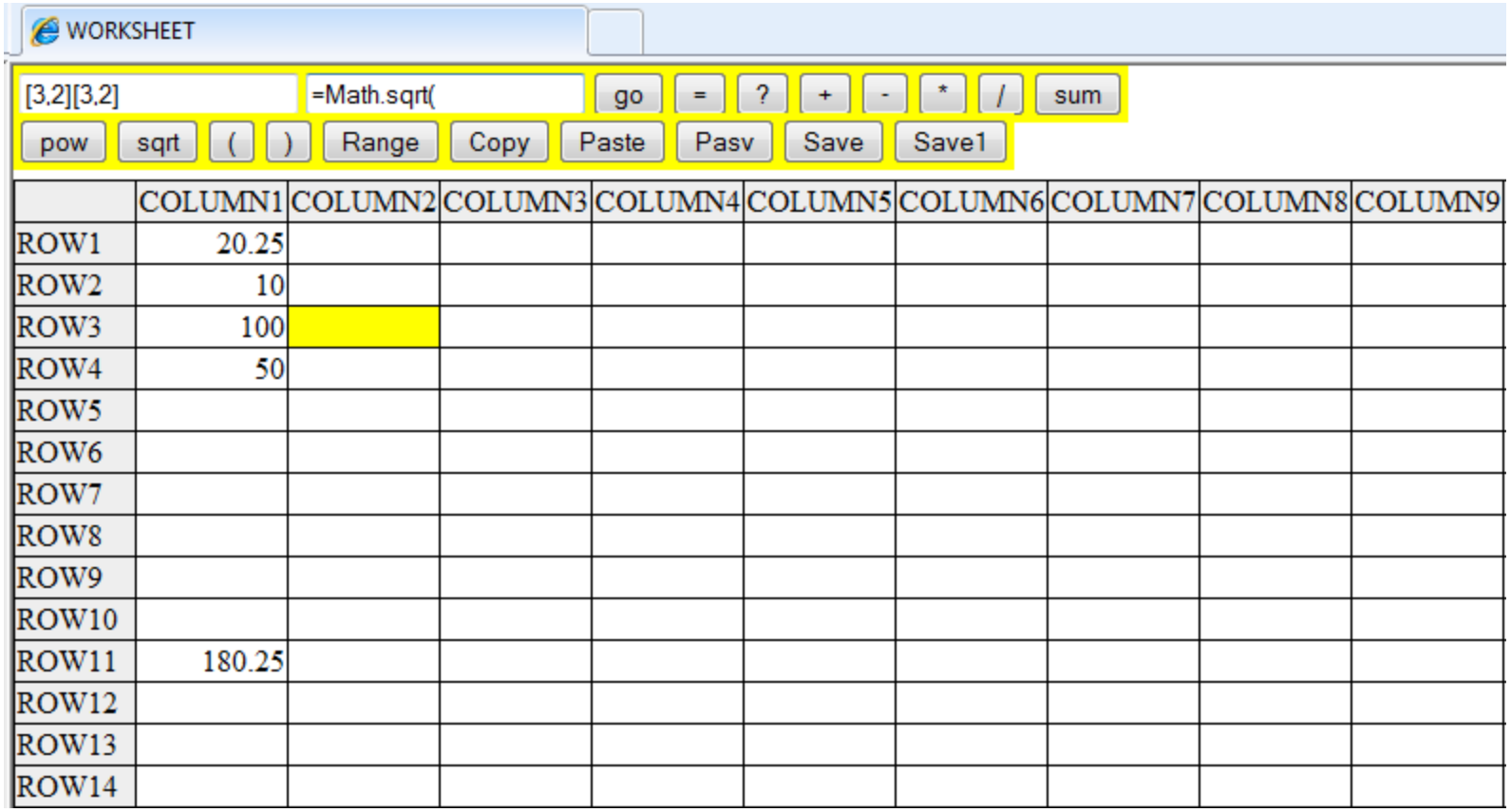
In the above screen you will see that the contents in [1,1] is changed from ‘Hello’ to 20.25 and the =sum[1,1][10,1] formula in [11,1] also changed the contents of [11,1] as 180.25.

One more calculation is the power of and square root of values.
Now select the cell [3,2] as shown below.

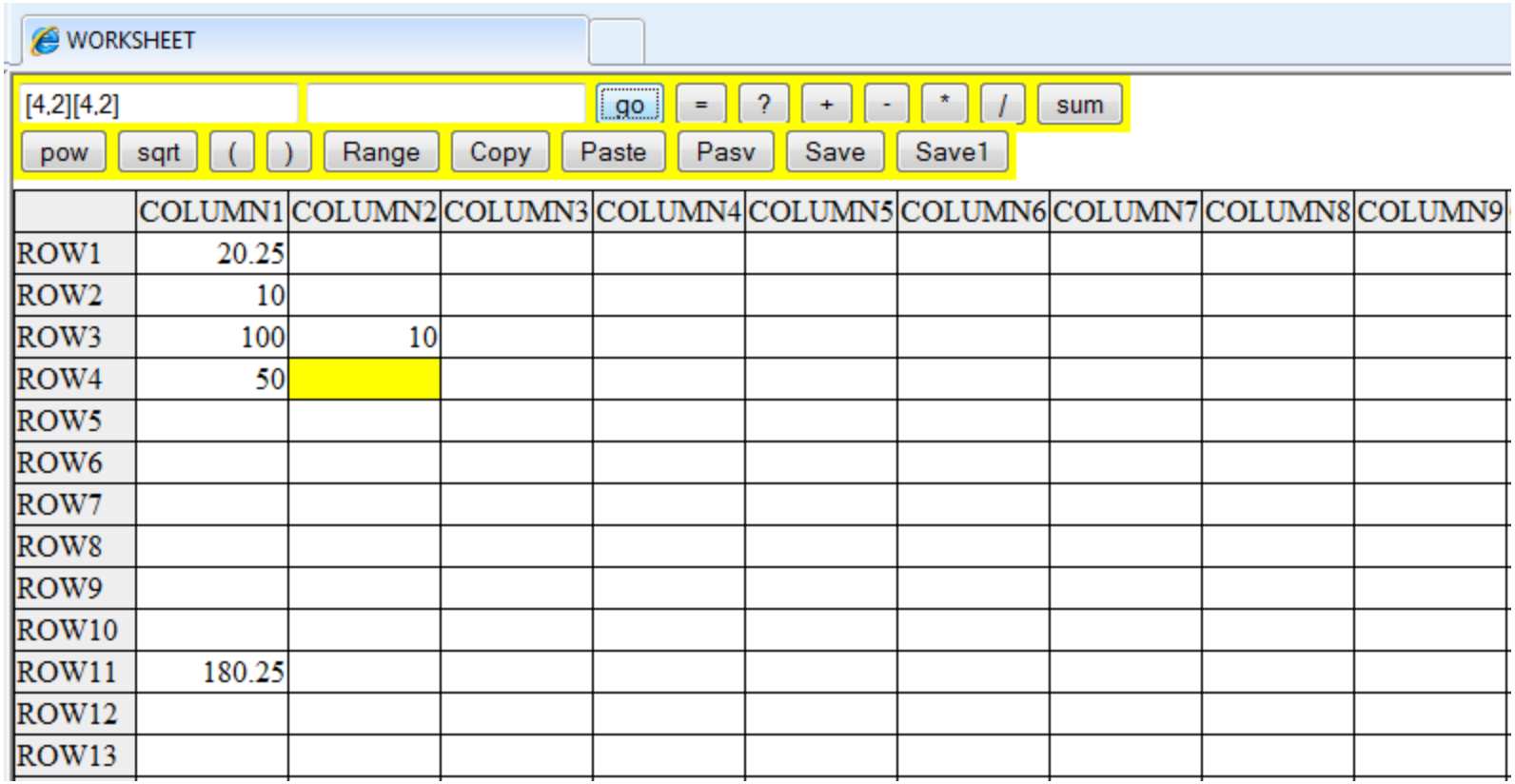


	COLUMN1	COLUMN2	COLUMN3	COLUMN4	COLUMN5	COLUMN6	COLUMN7	COLUMN8	COLUMN9
ROW1	20.25								
ROW2	10								
ROW3	100								
ROW4	50								
ROW5									
ROW6									
ROW7									
ROW8									
ROW9									
ROW10									
ROW11	180.25								
ROW12									
ROW13									
ROW14									

You will see the location indicator as [3,2][3,2]. Now in the formula box type '=' and then press 'sqrt' button.
You will see the following screen.

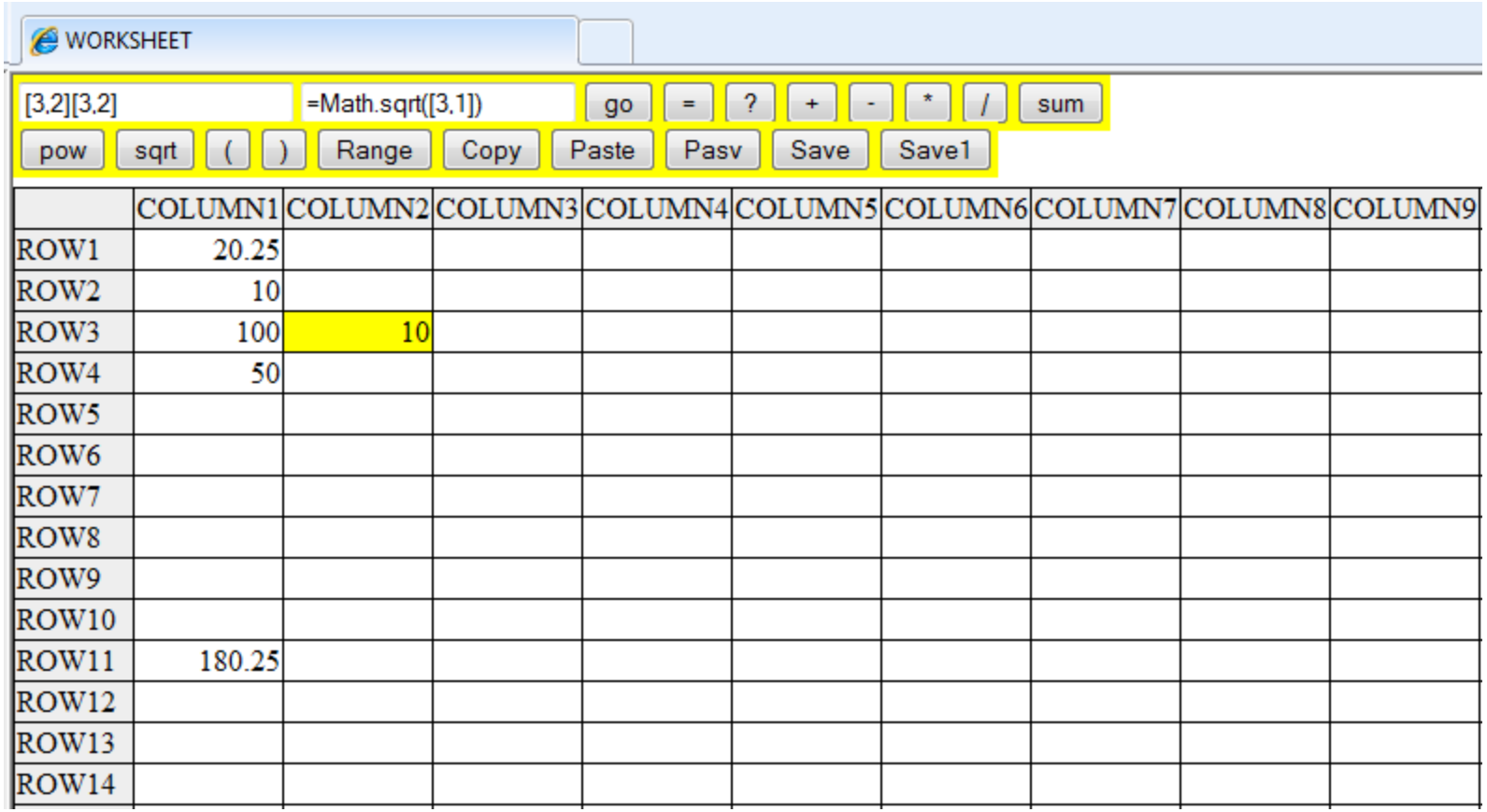


You will that the formula box changes to =Math.sqrt(and now you select the cell for which you want to find the squareroot value. In this case I select [3,1] and then type ‘)’ and then press enter key or ‘go’ button. The screen will be as below.



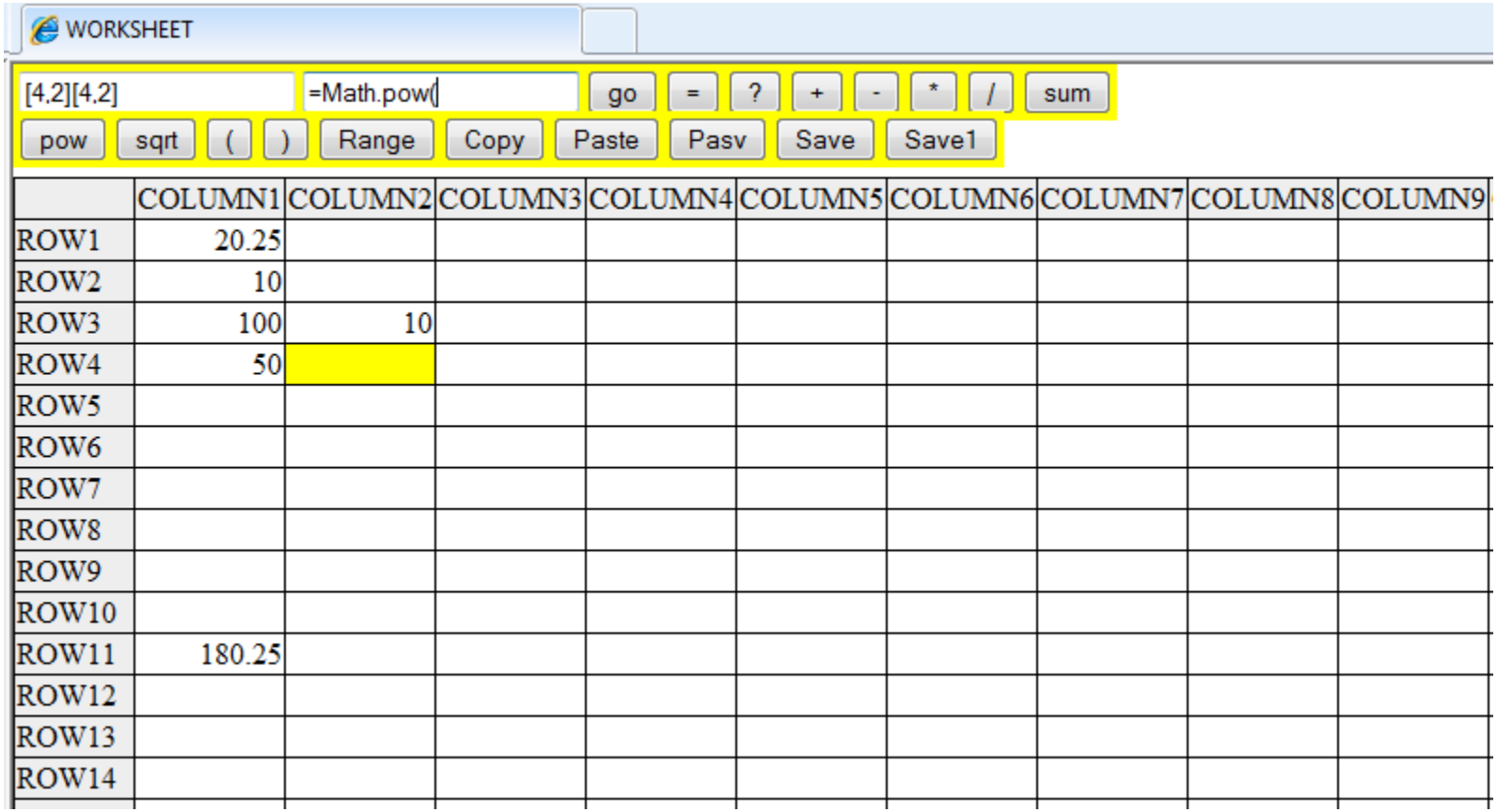
	COLUMN1	COLUMN2	COLUMN3	COLUMN4	COLUMN5	COLUMN6	COLUMN7	COLUMN8	COLUMN9
ROW1	20.25								
ROW2	10								
ROW3	100	10							
ROW4	50								
ROW5									
ROW6									
ROW7									
ROW8									
ROW9									
ROW10									
ROW11	180.25								
ROW12									
ROW13									

Now square root of [3,1] is placed in [3,2], which is 10. You can click on [3,2] to see the exact syntax of formula as shown below.



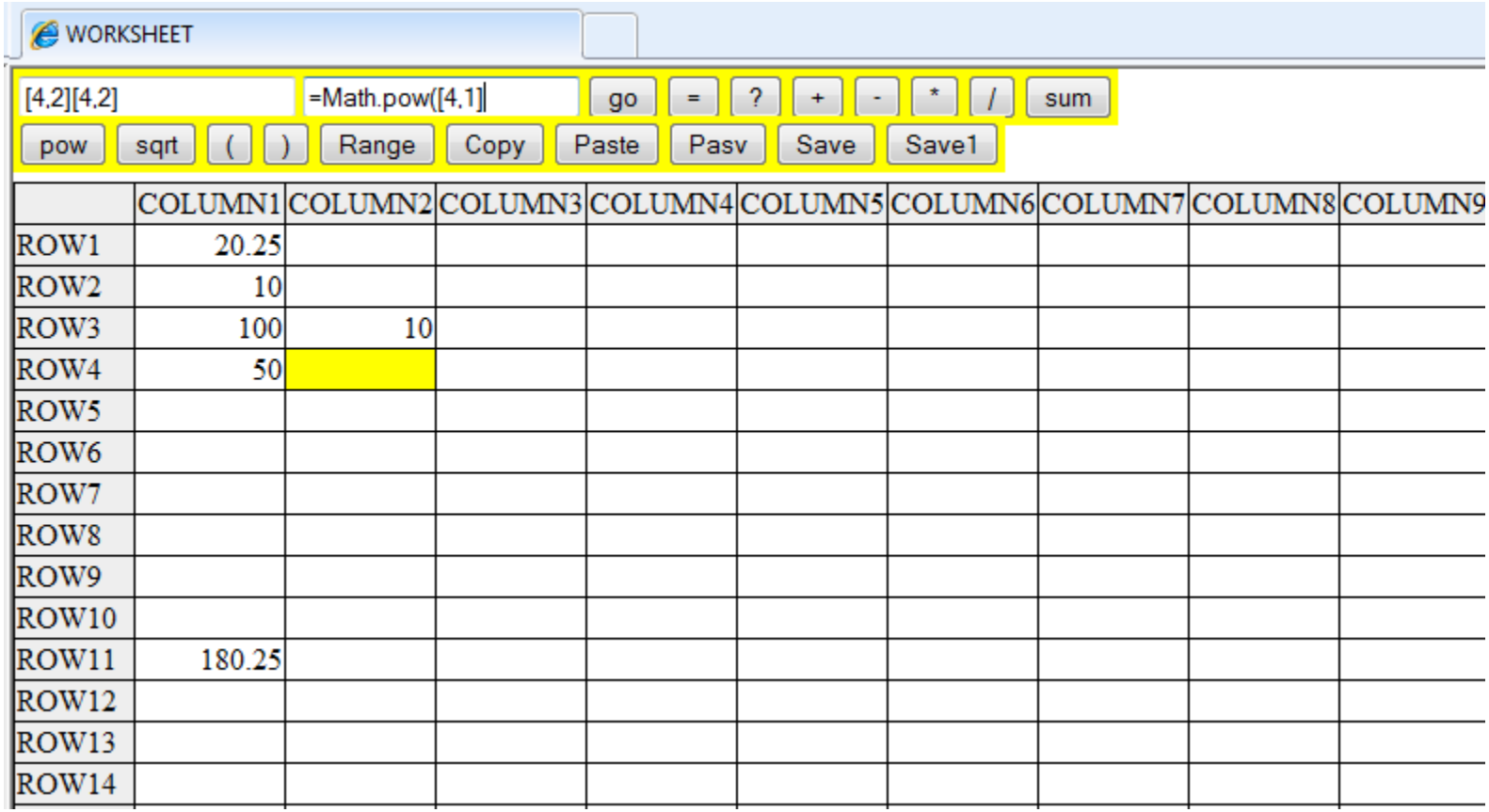
	COLUMN1	COLUMN2	COLUMN3	COLUMN4	COLUMN5	COLUMN6	COLUMN7	COLUMN8	COLUMN9
ROW1	20.25								
ROW2	10								
ROW3	100	10							
ROW4	50								
ROW5									
ROW6									
ROW7									
ROW8									
ROW9									
ROW10									
ROW11	180.25								
ROW12									
ROW13									
ROW14									

You will see the formula as =Math.sqrt([3,1]) . This is Native javascript formula for finding the root value. Similarly you can Power of or Exponent of function as follows. Now you want to find the value of [4,1] raised to the power of 3 and place it in the cell[4,2]. Now select the cell [4,2] and then click on '=' button and then on 'pow' button will show the formula box as below.

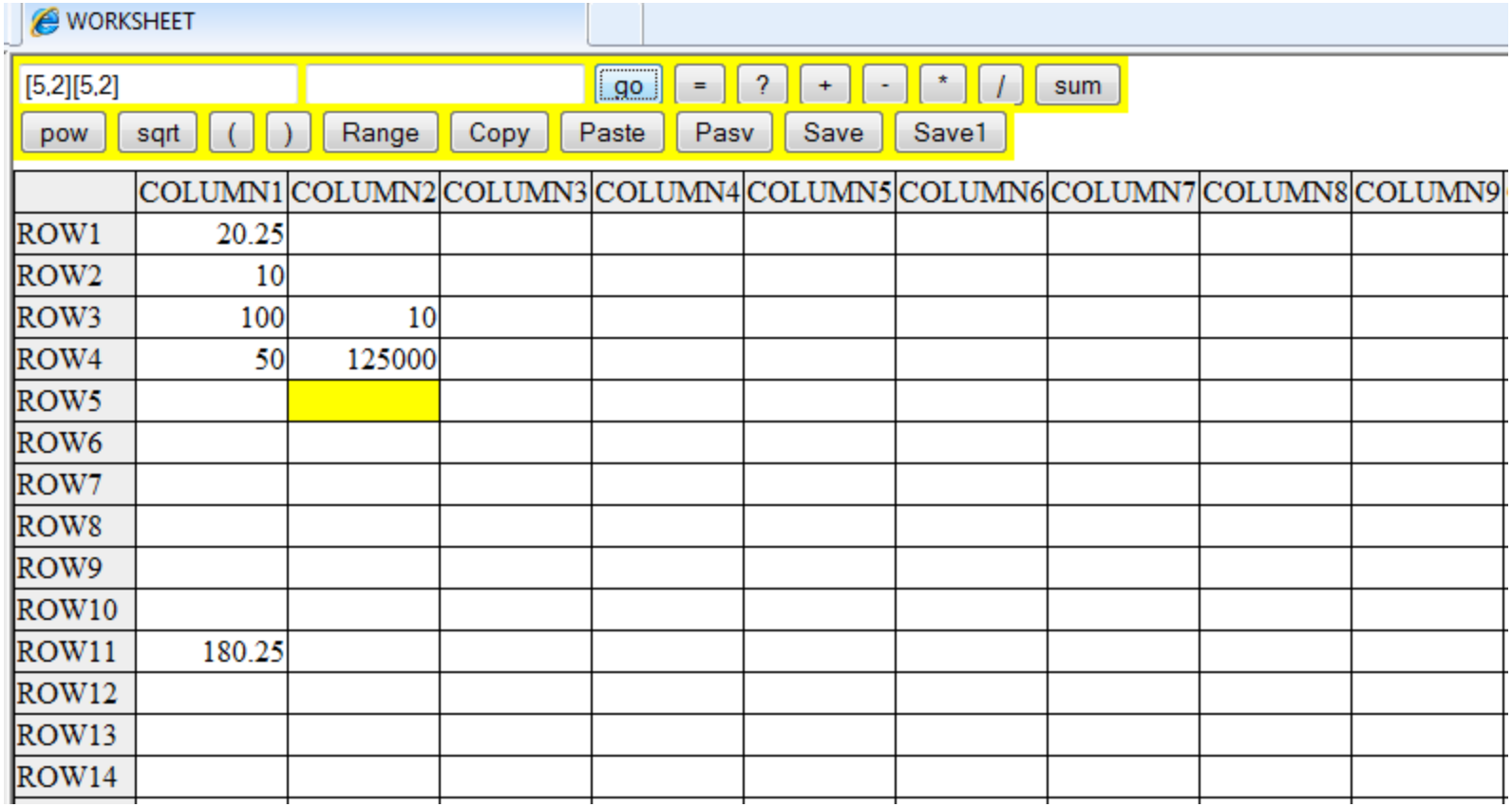


	COLUMN1	COLUMN2	COLUMN3	COLUMN4	COLUMN5	COLUMN6	COLUMN7	COLUMN8	COLUMN9
ROW1	20.25								
ROW2	10								
ROW3	100	10							
ROW4	50								
ROW5									
ROW6									
ROW7									
ROW8									
ROW9									
ROW10									
ROW11	180.25								
ROW12									
ROW13									
ROW14									

You will see the formula bar changed to =Math.pow(and now you click the cell you want to raise the power and that is [4,1] and you will see the screen as below.

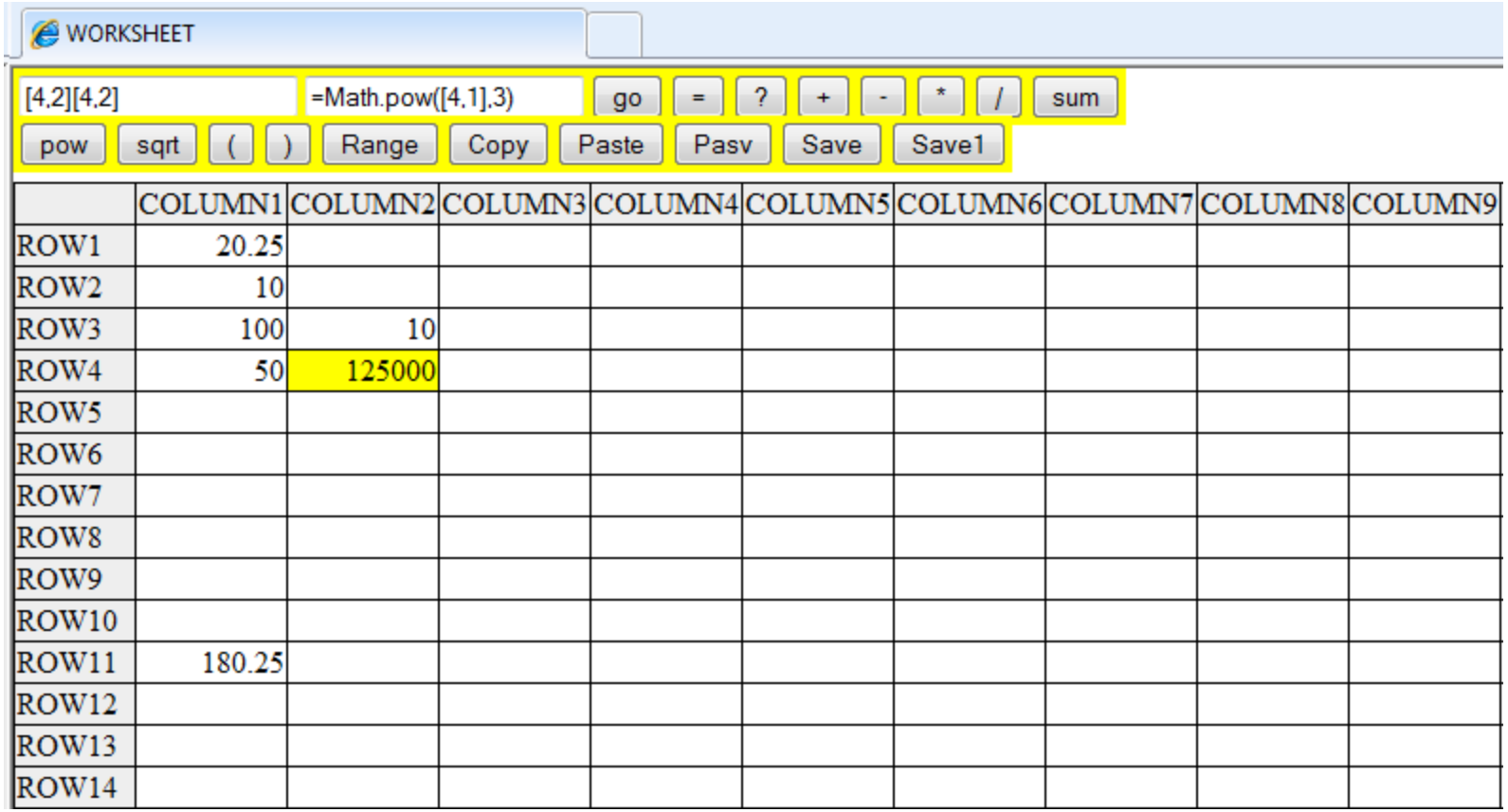


Now in the formula box type ,3) and the formula bar will become =math.pow([4,1],3) and press enter or 'go' button will change the screen as below.



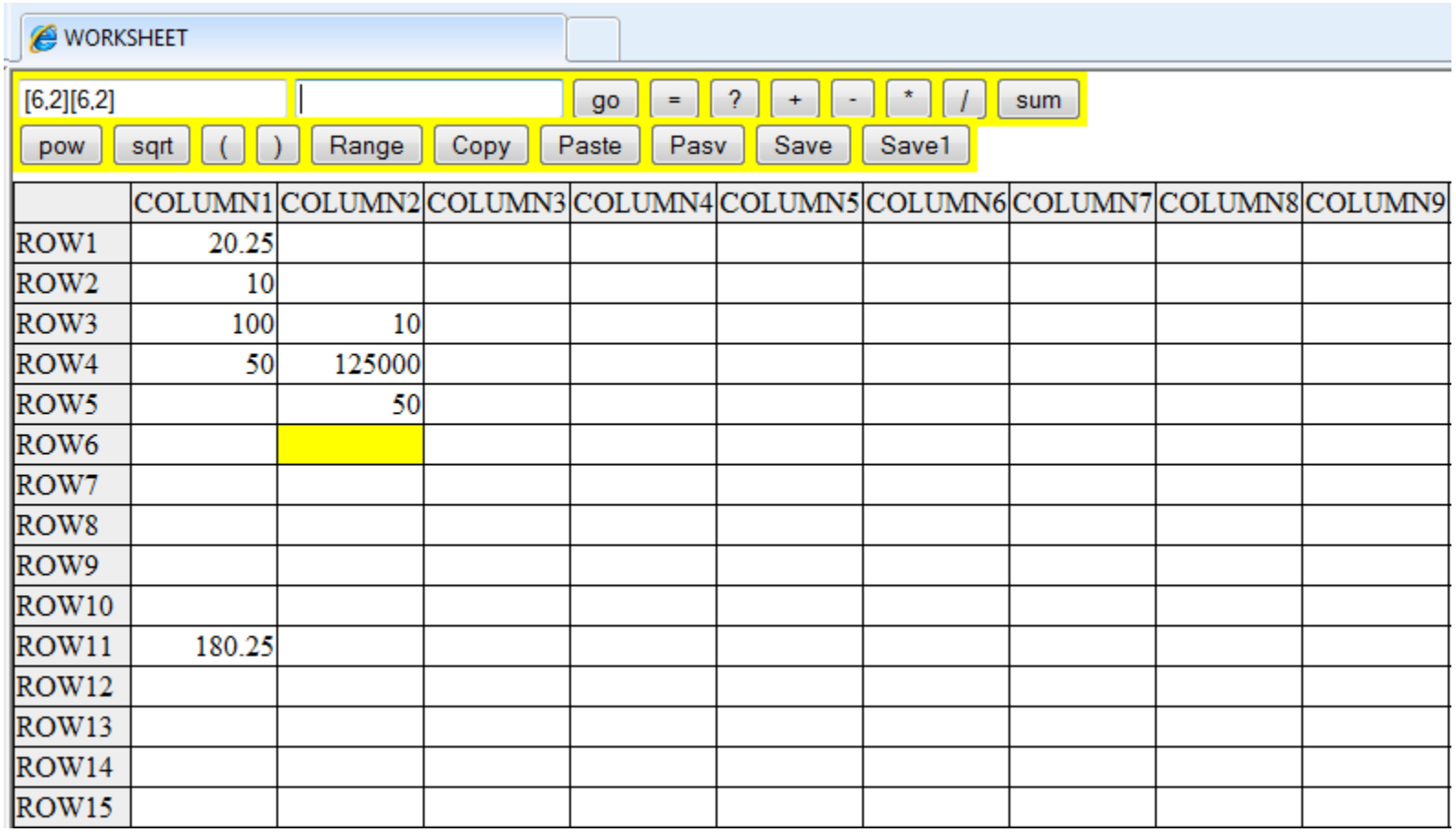
	COLUMN1	COLUMN2	COLUMN3	COLUMN4	COLUMN5	COLUMN6	COLUMN7	COLUMN8	COLUMN9
ROW1	20.25								
ROW2	10								
ROW3	100	10							
ROW4	50	125000							
ROW5									
ROW6									
ROW7									
ROW8									
ROW9									
ROW10									
ROW11	180.25								
ROW12									
ROW13									
ROW14									

Now you will see that the contents of [4,2] if value of [4,1] raised to the power of 3 which is (50*50*50=125000).
Go back to the cell [4,2] to see the syntax of the formula. You will see the screen as below.



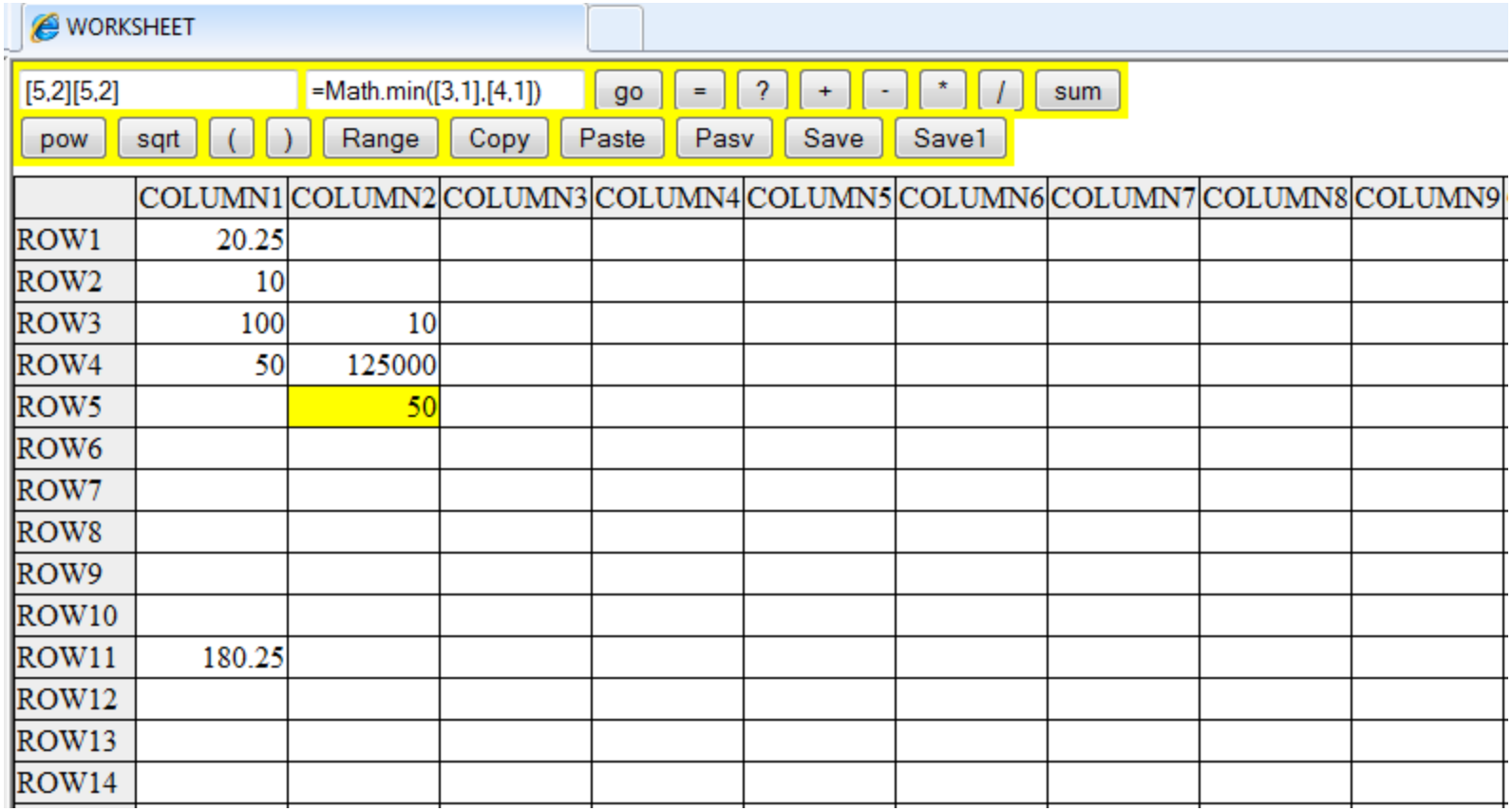
	COLUMN1	COLUMN2	COLUMN3	COLUMN4	COLUMN5	COLUMN6	COLUMN7	COLUMN8	COLUMN9
ROW1	20.25								
ROW2	10								
ROW3	100	10							
ROW4	50	125000							
ROW5									
ROW6									
ROW7									
ROW8									
ROW9									
ROW10									
ROW11	180.25								
ROW12									
ROW13									
ROW14									

This formula =Math.pow([4,1],3) is also Native Javascript formula. Similarly any native javascript formula can be used. For example I want to find Minimum of [3,1] and [4,1] and put it in the cell [5,2]. Select the cell [5,2] and then type the formula as =Math.min([3,1],[4,1]) and then press enter or ‘go’ button will give the following screen.



	COLUMN1	COLUMN2	COLUMN3	COLUMN4	COLUMN5	COLUMN6	COLUMN7	COLUMN8	COLUMN9
ROW1	20.25								
ROW2	10								
ROW3	100	10							
ROW4	50	125000							
ROW5		50							
ROW6									
ROW7									
ROW8									
ROW9									
ROW10									
ROW11	180.25								
ROW12									
ROW13									
ROW14									
ROW15									

Now go back to the cell [5,2] to see the syntax of the formula as shown below.



	COLUMN1	COLUMN2	COLUMN3	COLUMN4	COLUMN5	COLUMN6	COLUMN7	COLUMN8	COLUMN9
ROW1	20.25								
ROW2	10								
ROW3	100	10							
ROW4	50	125000							
ROW5		50							
ROW6									
ROW7									
ROW8									
ROW9									
ROW10									
ROW11	180.25								
ROW12									
ROW13									
ROW14									

You will see the formula bar as =Math.min([3,1][4,1]) which means the minimum value of [3,1] or [4,1] which is 50 in this case. Similarly any valid javascript Math formula can be used in this spread sheet.